PART B

# SOLAR - GEOPHYSICAL DATA

ISSUED

JUNE 1962

U. S. DEPARTMENT OF COMMERCE.
NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

CRPL-F 214
PART B

NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

Issued
30 June 1962

# SOLAR - GEOPHYSICAL DATA

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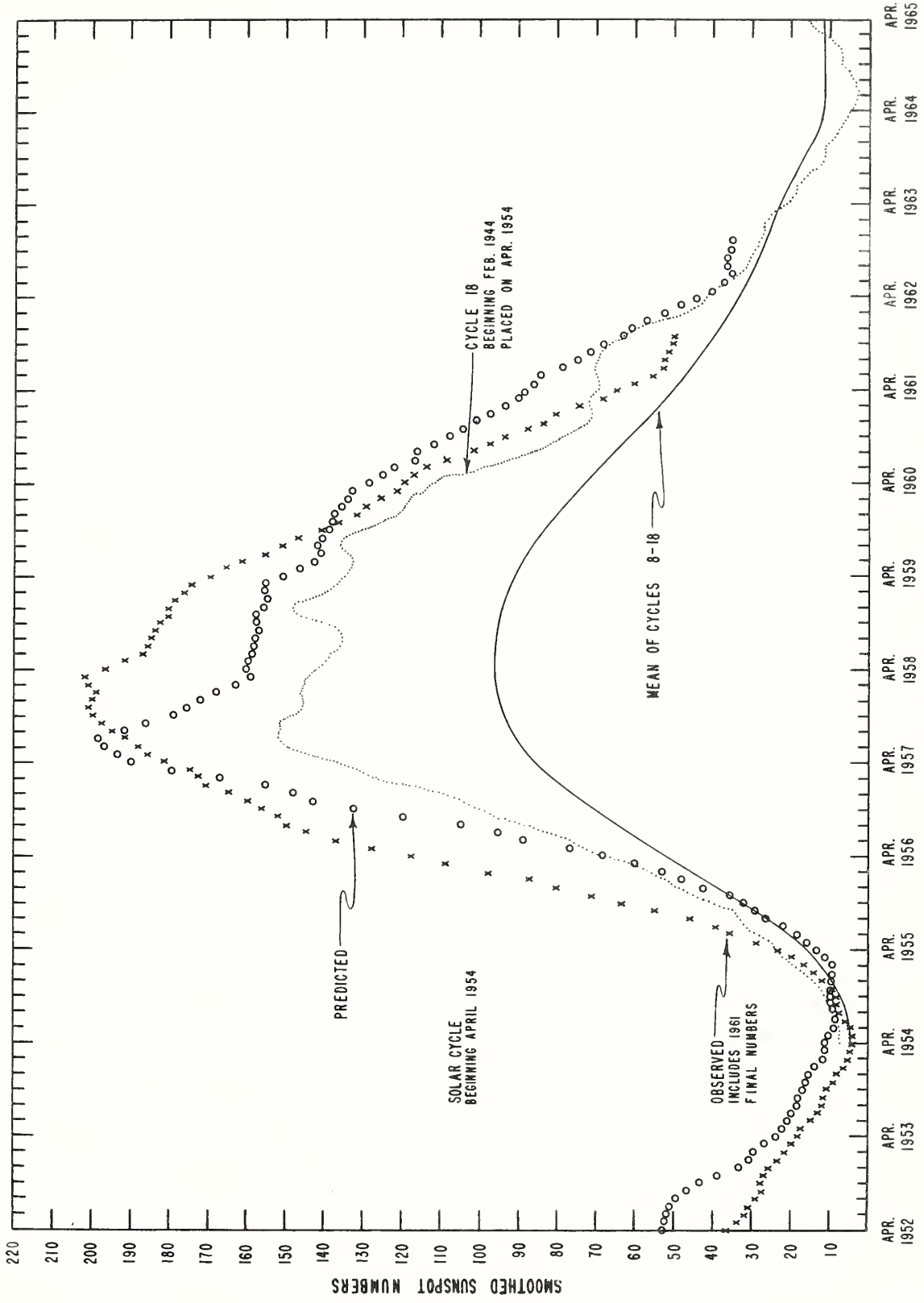
The descriptive text was republished November 1961.
Addenda to the text were published February 1962.

| Apr. 1962 | American Relative Sunspot Numbers $R_A'$ |
|---|---|
| 1 | 32 |
| 2 | 31 |
| 3 | 34 |
| 4 | 31 |
| 5 | 21 |
| 6 | 18 |
| 7 | 28 |
| 8 | 21 |
| 9 | 18 |
| 10 | 1 |
| 11 | 8 |
| 12 | 39 |
| 13 | 62 |
| 14 | 65 |
| 15 | 76 |
| 16 | 77 |
| 17 | 80 |
| 18 | 66 |
| 19 | 69 |
| 20 | 49 |
| 21 | 64 |
| 22 | 64 |
| 23 | 48 |
| 24 | 25 |
| 25 | 14 |
| 26 | 18 |
| 27 | 26 |
| 28 | 28 |
| 29 | 24 |
| 30 | 25 |
| Mean: | 38.7 |

| May 1962 | Zürich Provisional Relative Sunspot Numbers $R_Z$ | Daily Values Solar Flux at 2800 Mc, Ottawa, Canada Flux |
|---|---|---|
| 1 | 49 | 94 |
| 2 | 48 | 95 |
| 3 | 46 | 94 |
| 4 | 42 | 91 |
| 5 | 37 | 87 |
| 6 | 35 | 87 |
| 7 | 31 | 83 |
| 8 | 33 | 84 |
| 9 | 32 | 87 |
| 10 | 43 | 91 |
| 11 | 43 | 98 |
| 12 | 44 | 98 |
| 13 | 36 | 96 |
| 14 | 26 | 94 |
| 15 | 13 | 91 |
| 16 | 18 | 89 |
| 17 | 26 | 93 |
| 18 | 26 | 95 |
| 19 | 26 | 97 |
| 20 | 31 | 103 |
| 21 | 45 | 106 |
| 22 | 59 | 110 |
| 23 | 62 | 111 |
| 24 | 52 | 111 |
| 25 | 60 | 112 |
| 26 | 57 | 110 |
| 27 | 54 | 109 |
| 28 | 60 | 103 |
| 29 | 59 | 104 |
| 30 | 58 | 105 |
| 31 | 46 | 104 |
| Mean: | 41.8 | 97.8 |

COMMERCE - STANDARDS - BOULDER




PREDICTED AND OBSERVED SUNSPOT NUMBERS

# CALCIUM PLAGE AND SUNSPOT REGIONS

## MAY 1962

| CMP May 1962 | Lat | McMath Plage Number | Return of Region | Calcium Plage Data | | | Sunspot Data | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | CMP Values Area | Int. | History, Age | CMP Values Area | Count | History |
| 01.0 | S07 | 6407 | New | 400 | 2 | b ⌐ ℓ 1 | | | |
| 01.4 | N13 | 6403 | 6385 | 5000 | 3.5 | ℓ — ℓ 2 | 510 | 5 | ℓ — ℓ |
| 02.3 | S05 | 6404 | New | 200 | 1 | ℓ ¬ d 1 | | | |
| 03.0 | N14 | 6405 | * | (2200) | (3) | ℓ — * | | | |
| 03.2 | N18 | 6408 | New | 700 | 2 | ℓ \ ℓ 1 | | | |
| 06.2 | N18 | 6411 | New | 1600 | 3 | ℓ — ℓ 1 | 40 | 2 | ℓ ¬ d |
| 07.6 | S18 | 6414 | New | 300 | 2.5 | b / ℓ 1 | (50) | (7) | b ⌐ ℓ |
| 11.0 | N11 | 6412 | 6386 | 3600 | 3 | ℓ \ ℓ 3 | 50 | 1 | ℓ ¬ d |
| 11.2 | S04 | 6415 | 6388 | 700 | 2 | ℓ \ ℓ 2 | | | |
| 13.5 | N15 | 6418 | 6389 | 400 | 1 | ℓ ¬ d 9 | | | |
| 13.7 | N18 | 6423 | New | 500 | 2 | b ∧ d 1 | | | |
| 14.9 | S10 | 6416 | 6391 | 2000 | 3 | ℓ — ℓ 2 | 170 | 5 | ℓ — ℓ |
| 16.1 | N10 | 6417 | 6393 | 2800 | 3 | ℓ — ℓ 5 | | | |
| 17.5 | S10 | 6420 | ** | 1400 | 2 | ℓ — ℓ 4 | | | |
| 18.1 | N11 | 6419 | 6395 | 2200 | 2.5 | ℓ — ℓ 5 | | | |
| 19.6 | N20 | 6421 | 6398 | 3400 | 3 | ℓ — ℓ 5 | | | |
| 19.6 | S12 | 6422 | 6397 | 1100 | 2 | ℓ — ℓ 3 | | | |
| 21.7 | N05 | 6429 | New | 300 | 2 | b ⌐ ℓ 1 | | | |
| 22.5 | S07 | 6425 | New | 400 | 2 | ℓ — ℓ 1 | | | |
| 22.7 | N05 | 6424 | *** | 600 | 2 | ℓ / ℓ 2 | 10 | 1 | ℓ ¬ d |
| 24.5 | N04 | 6430 | New | 200 | 2.5 | b ⌐ ℓ 1 | | | |
| 26.8 | N15 | 6426 | 6406B | 3700 | 3 | ℓ — ℓ 2 | 360 | 18 | ℓ — ℓ |
| 28.0 | S08 | 6427 | 6407 | 3200 | 3 | ℓ — ℓ 2 | 720 | 7 | ℓ — ℓ |
| 28.4 | N13 | 6428 | 6403 | 2800 | 3 | ℓ — ℓ 3 | 50 | 2 | b ∧ d |
| 30.6 | N20 | 6434 | **** | 500 | 3 | b ∧ d 1 | | | |

* Became part of 6403

** 6394 and 6396

*** Return of region that formed on the disk on April 29 in position of old 6400

**** New in position of old 6408

Addition to report for April:

A region, 6406B formed on disk between April 30 and May 3. It was N14 W60 on May 3, with intensity 2 and area 200. In April it was New, in position of old 6406 which had died on the disk.

# MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

MAY 1962

| May 1962 | Time Meas. | Lat. | Mer. Dist. | Type | | May 1962 | Time Meas. | Lat. | Mer. Dist. | Type |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1820 | N09 | W08 | βλ | | 7 | 1620 | N20 | W24 | αp |
| | | S05 | W08 | αf | | | | S18 | W01 | αf |
| | | N11 | W01 | αf | | | | N15 | E44 | αp |
| | | N19 | E18 | βf | | | | | | |
| | | N20 | E59 | βp | | 8 | 2330 | S18 | W19 | β |
| | | | | | | | | N15 | E26 | βp |
| 2 | 2000 | N09 | W23 | βλ | | | | S08 | E78 | αp |
| | | N18 | E02 | αp | | | | | | |
| | | N20 | E43 | βp | | 9 | 1640 | S18 | W29 | βp |
| | | | | | | | | N15 | E16 | αp |
| 3 | 1650 | N09 | W36 | βλ | | | | S09 | E68 | αp |
| | | N19 | E33 | βp | | | | | | |
| | | | | | | 11 | 1735 | S19 | W58 | βp |
| 4 | 2255 | N09 | W53 | βλ | | | | N15 | W12 | αp |
| | | N20 | E14 | βp | | | | S09 | E40 | αp |
| 5 | 1930 | N09 | W56 | αp | | 17 | 1650 | S09 | W39 | βf |
| | | N20 | E01 | αp | | | | N06 | E61 | αf |
| | | N16 | E69 | αp | | | | | | |
| | | | | | | 22 | 1930 | N13 | E43 | αp |
| 6 | 1840 | N20 | W12 | αp | | | | S09 | E64 | βp |
| | | S18 | E10 | βp | | | | | | |
| | | N15 | E56 | αp | | | | | | |

COMMERCE - STANDARDS - BOULDER

# PROVISIONAL CORONAL LINE EMISSION INDICES

MAY 1962



| CMP May 1962 | North East Quadrant (observed 7 days earlier) | | | | South East Quadrant (observed 7 days earlier) | | | | South West Quadrant (observed 7 days later) | | | | North West Quadrant (observed 7 days later) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $G_6$ | $G_1$ | $R_6$ | $R_1$ | $G_6$ | $G_1$ | $R_6$ | $R_1$ | $G_6$ | $G_1$ | $R_6$ | $R_1$ | $G_6$ | $G_1$ | $R_6$ | $R_1$ |
| 1 | 49 | 134 | x | x | 16 | 39 | x | x | x | x | x | x | x | x | x | x |
| 2 | 37 | 87 | 30a | 60a | 9 | 25 | 25a | 35a | 7a | 8a | 58a | 74a | 42a | 76a | 57a | 77a |
| 3 | x | x | x | x | x | x | x | x | 7a | 11a | 42a | 55a | 19a | 22a | 48a | 72a |
| 4 | x | x | x | x | x | x | x | x | 6 | 6 | 19 | 24 | 15 | 22 | 30 | 54 |
| 5 | 8 | 11 | 25 | 33 | 3 | 6 | 22 | 36 | 10 | 25 | x | x | 25 | 53 | x | x |
| 6 | x | x | x | x | x | x | x | x | 5 | 8 | x | x | 2 | 2 | x | x |
| 7 | 3a | 4a | 8 | 10 | 2a | 4a | 11 | 12 | 20 | 34 | 21a | 26a | 9 | 12 | 25a | 40a |
| 8 | 14 | 20 | 7a | 12a | 7 | 11 | 9a | 14a | 6 | 14 | x | x | 18 | 31 | x | x |
| 9 | 24a | 36a | x | x | 12a | 17a | x | x | x | x | x | x | x | x | x | x |
| 10 | 27a | 59a | x | x | 8a | 11a | x | x | 10 | 17 | 10a | 20a | 51 | 120 | 8a | 10a |
| 11 | 3a | 4a | x | x | -a | -a | x | x | 7 | 9 | 11 | 16 | 45 | 84 | 19 | 56 |
| 12 | 54 | 112 | x | x | 17 | 36 | x | x | 13 | 20 | 32 | 40 | 43 | 64 | 31 | 38 |
| 13 | x | x | x | x | x | x | x | x | 19 | 37 | 20a | 40a | 42 | 58 | 26a | 54a |
| 14 | x | x | x | x | x | x | x | x | 19 | 55 | 5 | 10 | 18 | 42 | 8 | 14 |
| 15 | x | x | x | x | x | x | x | x | 22 | 51 | 9 | 10 | 33 | 55 | 5 | 12 |
| 16 | 95a | 166a | 37a | 108a | 49a | 92a | 48a | 98a | 46 | 76 | 16a | 20a | 65 | 101 | 9a | 12a |
| 17 | 99a | 157a | 32a | 96a | 64 | 115 | 30a | 38a | 38 | 70 | 7 | 8 | 127 | 201 | 18 | 40 |
| 18 | 86 | 148 | 28 | 82 | 56 | 90 | 18 | 20 | 30 | 37 | x | x | 38 | 46 | x | x |
| 19 | 60 | 115 | x | x | 28 | 59 | x | x | 14 | 20 | x | x | 18 | 20 | x | x |
| 20 | 12 | 14 | x | x | 9 | 14 | x | x | 16 | 25 | 8 | 10 | 25 | 33 | 2 | 2 |
| 21 | 23 | 26 | 20a | 36a | 13 | 16 | 22a | 25a | x | x | x | x | x | x | x | x |
| 22 | 16 | 22 | x | x | 8 | 11 | x | x | 4 | 8 | 11 | 16 | 22 | 42 | 16 | 40 |
| 23 | x | x | x | x | x | x | x | x | 12 | 20 | x | x | 32 | 53 | x | x |
| 24 | 34 | 70 | 3a | 5a | 8 | 14 | 2a | 2a | x | x | x | x | x | x | x | x |
| 25 | 37 | 75 | 14 | 28 | 6 | 9 | 10 | 12 | 8 | 21 | 16 | 22 | 31 | 34 | 6 | 10 |
| 26 | 72 | 126 | 33 | 57 | 19 | 31 | 12 | 16 | 31 | 59 | x | x | 71 | 179 | x | x |
| 27 | 87 | 171 | 23a | 45a | 39 | 76 | 22a | 32a | 51 | 92 | 25 | 36 | 118 | 244 | 31 | 44 |
| 28 | 34 | 53 | 8 | 12 | 9 | 18 | 11 | 16 | 28 | 50 | x | x | 65 | 174 | x | x |
| 29 | 30 | 46 | 11 | 28 | 7 | 15 | 11 | 18 | x | x | x | x | x | x | x | x |
| 30 | 33 | 50 | 22 | 30 | 10 | 14 | 40 | 52 | x | x | x | x | x | x | x | x |
| 31 | 12 | 22 | 14 | 24 | 14 | 30 | 31 | 34 | 4 | 6 | 7 | 10 | 6 | 7 | 4 | 4 |

COMMERCE - STANDARDS - BOULDER

x = no observations  a = index computed from low weight data  * = yellow line observed

# SOLAR FLARES

## MAY 1962

| OBSERVATORY | DATE MAY 1962 | OBSERVED UNIVERSAL TIME START | END | MAX. PHASE | LOCATION APPROX. LAT. | MER. DIST. | McMATH PLAGE REGION | DURATION — MINUTES | IMPORTANCE | OBS. COND. | MEASUREMENTS TIME — U T | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Ha | MAX. INT. °. | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KODAIKNL | 01 | 0150 E | 0208 | | N20 | E73 | 6411 | 18 D | 1 | 3 | 0153 | .77 | 3.20 | 2.08 | 114 | |
| KODAIKNL | 01 | 0305 | 0308 | 0305 | N20 | E73 | | | 1- | 3 | 0305 | .50 | 2.10 | 1.44 | 114 | |
| KODAIKNL | 01 | 0420 | 0750 D | 0445 | N20 | E71 | 6411 | 210 D | 2 | 2 | 0445 | 1.75 | 6.40 | 2.16 | 122 | |
| ZURICH | 01 | 0642 | 0712 | | N19 | E68 | 6411 | 30 | 1 | 3 | 0642 | | 5.00 | | | |
| ONDREJOV | 01 | 0649 E | 0702 D | | N22 | E65 | 6411 | 13 D | 1+ | 3 | 0649 | | | 3.60 | | S-SWF |
| CAPRI S | 01 | 0653 E | 0732 D | | N21 | E67 | 6411 | 39 D | 2 | 2 | 0655 | 2.80 | 8.40 | | | |
| BUCHAREST | 01 | 0656 | 0804 | | N21 | E64 | 6411 | 68 | 2 | 2 | | | 9.20 | | | |
| CAPRI S | 01 | 1217 | 1402 | | N21 | E64 | 6411 | 105 | 2 | 2 | 1306 | 2.50 | 7.50 | | | Slow S-SWF |
| | 01 | 1230 | 1245 | NO FLARE | PATROL | | | | | | | | | | | |
| WENDEL | 01 | 1250 E | 1548 D | | N19 | E62 | 6411 | 178 D | 2 | | | | 9.00 | | | |
| MCMATH | 01 | 1549 E | 1558 D | | N21 | E61 | 6411 | 9 D | 1+ | 2 | 1550 | 1.50 | 3.70 | | | |
| CLIMAX | 01 | 1915 | 1928 | 1920 | N18 | E63 | | | 1- | | | .60 | .90 | | | |
| SAC PEAK | 01 | 1916 | 1929 D | 1925 | N19 | E61 | 6411 | 13 D | 1 | 3 | | 2.68 | 4.23 | | 30 | S-SWF |
| HONOLULU | 01 | 1928 E | 1940 D | 1928 | N19 | E59 | 6411 | 12 D | 1 | 1 | 1928 | 1.60 | 2.60 | | | |
| SAC PEAK | 01 | 2135 | 2145 | 2138 | N04 | W12 | | | 1- | 3 | | .77 | .76 | | 18 | |
| IKOMASAN | 01 | 2302 | | | N06 | W80 | | | 1- | | 2302 | 1.24 | | | 90 | |
| IKOMASAN | 01 | 2302 | 2320 | | N20 | E56 | 6411 | 18 | 1 | | 2315 | 1.86 | | | 90 | |
| LOCKHEED | 02 | 1722 | 1803 | 1738 | N06 | W90 | 6400 | 41 | 1 | 2 | 1738 | .80 | 4.00 | | 10 | |
| SAC PEAK | 02 | 1747 | 1835 | 1751 | N17 | E49 | 6411 | 48 | 1 | 3 | | 2.60 | 3.42 | | 14 | |
| LOCKHEED | 02 | 1906 | 1936 | 1915 | N06 | W90 | 6400 | 30 | 2 | 2 | 1915 | 1.30 | 6.50 | | 10 | |
| SAC PEAK | 02 | 1927 | 1952 | 1930 | N12 | W17 | | | 1- | 3 | | .47 | .47 | | 16 | |
| LOCKHEED | 02 | 2006 | 2035 | 2011 | N06 | W90 | | | 1- | 2 | 2011 | .20 | 1.00 | | 20 | |
| LOCKHEED | 02 | 2131 | 2151 | 2136 | N06 | W90 | | | 1- | 2 | 2136 | .30 | 1.50 | | 20 | |
| LOCKHEED | 02 | 2200 | 2250 | 2206 | N06 | W90 | | | 1- | 2 | 2225 | .30 | 1.50 | | 10 | |
| LOCKHEED | 02 | 2200 | 2250 | 2225 | N06 | W90 | | | 1- | | | | | | | |
| LOCKHEED | 02 | 2321 | 2400 | 2330 | N06 | W90 | 6400 | 39 | 1 | 2 | 2330 | .50 | 2.50 | | 10 | |
| LOCKHEED | 02 | 2321 | 2400 | 2345 | N06 | W90 | | | 1 | | | | | | | |
| IKOMASAN | 02 | 2331 | 0140 D | | N06 | W90 | 6400 | 129 D | 1 | | 2340 | | | | 100 | |
| LOCKHEED | 03 | 0045 | 0113 | 0052 | N06 | W90 | 6400 | 28 | 1 | 2 | 0052 | .70 | 3.50 | | 10 | |
| LOCKHEED | 03 | 0127 | 0132 D | 0132 U | N06 | W90 | | | 1- | 2 | 0132 | .20 | 1.00 | | 10 | |
| KODAIKNL | 03 | 0209 | 0220 | 0212 | N10 | W25 | 6403 | 11 | 1+ | 3 | 0212 | 1.75 | 1.98 | 2.08 | 122 | |
| IKOMASAN | 03 | 0216 | 0223 | | N11 | W27 | 6403 | 7 | 1 | | 0216 | 1.44 | | .82 | 100 | |
| | 03 | 0615 | 0630 | NO FLARE | PATROL | | | | | | | | | | | |
| LOCARNO | 03 | 0628 | 0723 | 0659 | N11 | W27 | 6403 | 55 | 2 | 1 | 0659 | | 4.00 | | | |
| KODAIKNL | 03 | 0644 | 0718 | 0653 | N10 | W25 | 6403 | 34 | 2 | 2 | 0653 | 3.50 | 4.00 | 2.00 | 122 | G-SWF |
| CAPRI S | 03 | 0646 E | 0719 D | | N09 | W26 | 6403 | 33 D | 1 | 2 | 0652 | 2.00 | 2.30 | | | |
| BUCHAREST | 03 | 0655 | 0724 | | N12 | W26 | 6403 | 29 | 2 | 1 | | | 9.10 | | | |
| HONOLULU | 03 | 2030 | 2118 | | N12 | E90 | 6412 | 48 | 1 | 3 | 2100 | .93 | 3.25 | | | |
| SAC PEAK | 03 | 2139 | 2144 | 2142 | N18 | E32 | | | 1- | 3 | | 1.82 | 2.00 | | 17 | |
| MCMATH | 03 | 2141 | 2200 D | 2142 | N19 | E31 | 6411 | | 1- | 2 | 2142 | .70 | .90 | | | |
| | 04 | 0145 | 0200 | NO FLARE | PATROL | | | | | | | | | | | |
| | 04 | 0900 | 1015 | NO FLARE | PATROL | | | | | | | | | | | |
| | 04 | 1030 | 1145 | NO FLARE | PATROL | | | | | | | | | | | |
| CLIMAX | 04 | 1423 | 1443 | 1431 | N18 | E23 | | | 1- | | | .50 | .50 | | | |
| SAC PEAK | 04 | 1427 | 1439 | 1431 | N18 | E23 | | | 1- | 2 | | 1.55 | 1.61 | | 16 | |
| MCMATH | 04 | 1428 | 1442 | 1432 | N19 | E21 | 6411 | | 1- | 2 | 1432 | .70 | .80 | | | |
| SAC PEAK | 04 | 1617 | 1621 | 1619 | N10 | W48 | | | 1- | 2 | | .41 | .52 | | 17 | |
| CLIMAX | 04 | 1719 | 1738 | 1724 | N07 | W49 | | | 1- | | | .30 | .40 | | | |

# SOLAR FLARES

## MAY 1962

| OBSERVATORY | DATE MAY 1962 | OBSERVED UNIVERSAL TIME START | END | MAX. PHASE | LOCATION APPROX. LAT. | MER DIST | McMATH PLAGE REGION | DURATION — MINUTES | IMPORTANCE | OBS. COND. | MEASUREMENTS TIME U.T | MEAS AREA Sq. Deg | CORR. AREA Sq. Deg | MAX. WIDTH Hα | MAX. INT. % | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SAC PEAK | 10 | 2130 | 2155 | 2135 | N14 | E06 | | | 1- | 3 | | 1.79 | 1.77 | | 18 | |
| MCMATH | 10 | 2132 | 2138 D | | N15 | E05 | 6412 | | 1- | 2 | 2138 | .70 | .70 | | | |
| | 10 | 2330 | 2400 | NO FLARE | PATROL | | | | | | | | | | | |
| | 11 | 0045 | 0415 | NO FLARE | PATROL | | | | | | | | | | | |
| BUCHAREST | 11 | 0702 | 0938 | 0855 | S19 | W54 | 6414 | 156 | 1 | 2 | | | 2.90 | | | |
| WENDEL | 11 | 0931 E | 0940 D | | S19 | W54 | | | 1- | | | | | | | |
| WENDEL | 11 | 1155 E | 1208 D | | N15 | W05 | | | 1- | | | | | | | |
| SAC PEAK | 11 | 1334 | 1344 | 1338 | S11 | E41 | | | 1- | 3 | | .87 | .99 | | 17 | |
| MCMATH | 11 | 1335 | 1344 | 1337 | S09 | E40 | 6416 | | 1- | 2 | 1337 | .20 | .20 | | | |
| MCMATH | 11 | 1615 | 1640 | 1622 | S09 | E38 | 6416 | | 1- | 2 | 1622 | .30 | .30 | | | |
| SAC PEAK | 11 | 1616 | 1638 | 1621 | S11 | E39 | 6416 | 22 | 1 | 3 | | 2.17 | 2.39 | | 17 | |
| CLIMAX | 11 | 1618 | 1632 | 1622 | S11 | E40 | | | 1- | | | .40 | .40 | | | |
| LOCKHEED | 11 | 1626 | 1642 | 1632 | S09 | E38 | | | 1- | 1 | 1632 | .30 | .30 | | 20 | |
| LOCKHEED | 11 | 1644 | 1702 | 1651 | S18 | W61 | | | 1- | 2 | 1651 | .40 | .60 | | 10 | |
| MCMATH | 11 | 1647 | 1658 | 1648 | S20 | W38 | 6414 | | 1- | 2 | 1648 | .30 | .60 | | | |
| LOCKHEED | 11 | 1745 | 1802 | 1750 | S07 | E38 | | | 1- | 2 | 1750 | .60 | .70 | | 10 | |
| SAC PEAK | 11 | 1808 | 1826 | 1811 | S10 | E38 | | | 1- | 3 | | 1.51 | 1.67 | | 18 | |
| MCMATH | 11 | 1811 | 1839 | 1817 | S09 | E37 | 6416 | | 1- | 2 | 1817 | .30 | .30 | | | |
| MCMATH | 11 | 1916 | 1932 | 1918 | N15 | W19 | 6412 | | 1- | 2 | 1918 | .30 | .30 | | | |
| MCMATH | 11 | 1942 | 2006 | 1944 | S08 | E38 | 6416 | | 1- | 2 | 1944 | .40 | .50 | | | |
| LOCKHEED | 11 | 2100 | 2114 | 2103 | S09 | E34 | | | 1- | 1 | 2103 | .60 | .60 | | 20 | |
| SAC PEAK | 11 | 2100 | 2120 | 2105 | S10 | E36 | | | 1- | 3 | | 1.88 | 2.02 | | 19 | |
| MCMATH | 11 | 2102 | 2120 | 2104 | S10 | E36 | 6416 | | 1- | 2 | 2104 | .60 | .80 | | | |
| LOCKHEED | 11 | 2130 | 2155 | 2136 | S06 | E35 | | | 1- | 1 | 2136 | .30 | .30 | | 10 | |
| SAC PEAK | 11 | 2132 | 2155 | 2136 | S09 | E37 | 6416 | 23 | 1 | 3 | | 3.98 | 4.33 | | 20 | |
| MCMATH | 11 | 2132 | 2155 | 2135 | S08 | E37 | 6416 | | 1- | 2 | 2135 | .60 | .80 | | | |
| LOCKHEED | 12 | 0038 | 0104 | 0048 | S08 | E33 | | | 1- | 2 | 0048 | 1.50 | 1.60 | | 20 | |
| CLIMAX | 12 | 0039 | 0107 | 0045 | S07 | E35 | | | 1- | | | 1.20 | 1.30 | | | |
| | 12 | 0115 | 0330 | NO FLARE | PATROL | | | | | | | | | | | |
| CAPRI S | 12 | 0648 E | 0714 D | | S09 | E30 | | | 1- | 3 | 0701 | 1.20 | 1.40 | | | |
| BUCHAREST | 12 | 0700 | 0750 | | S07 | E30 | | | 1- | 2 | | | 1.90 | | | |
| SAC PEAK | 12 | 1327 | 1418 | 1339 | S08 | E27 | 6416 | 51 | 1 | 3 | | 4.33 | 4.43 | | 20 | |
| CAPRI S | 12 | 1338 E | 1420 | | S09 | E25 | | | 1- | 2 | 1356 | 1.30 | 1.40 | | | |
| CLIMAX | 12 | 1351 | 1403 | 1356 | S09 | E26 | | | 1- | | | 1.50 | 1.50 | | | |
| SAC PEAK | 12 | 1446 | 1454 D | 1449 | S13 | E30 | | | 1- | 3 | | .50 | .50 | | 19 | |
| CLIMAX | 12 | 1552 | 1602 | 1557 | S09 | E25 | | | 1- | | | .90 | .90 | | | |
| SAC PEAK | 12 | 1555 | 1604 | 1558 | S09 | E26 | | | 1- | 1 | | .43 | .43 | | 19 | |
| CLIMAX | 12 | 1725 | 1731 D | 1729 | S09 | E23 | | | 1- | | | .80 | .80 | | | |
| SAC PEAK | 12 | 1732 E | 1737 | 1732 U | S09 | E24 | | | 1- | 1 | | .43 | .43 | | 18 | |
| SAC PEAK | 12 | 2026 | 2038 | 2030 | S20 | W68 | | | 1- | 1 | | .41 | .72 | | 17 | |
| LOCKHEED | 12 | 2140 | 2150 | 2142 | S08 | E22 | | | 1- | 1 | 2142 | .30 | .30 | | 20 | |
| | 13 | 0800 | 0845 | NO FLARE | PATROL | | | | | | | | | | | |
| ARCETRI | 13 | 0853 E | 0929 D | | S09 | E17 | 6416 | 36 D | 1 | 2 | 0903 | | | | | |
| KODAIKNL | 13 | 0859 E | 0930 | | N09 | E16 | | | 1- | 2 | | 1.16 | 1.23 | | | |
| | 13 | 1030 | 1115 | NO FLARE | PATROL | | | | | | | | | | | |
| CLIMAX | 13 | 2112 | 2135 D | 2119 | S07 | E13 | | | 1- | | | .80 | .80 | | | |
| SAC PEAK | 13 | 2112 | 2234 | 2123 | S08 | E14 | 6416 | 82 | 1 | 3 | | 4.13 | 4.04 | | 25 | G-SWF |
| HONOLULU | 13 | 2114 | 2246 | 2130 | S11 | E13 | 6416 | 92 | 1 | 2 | 2130 | 2.37 | 2.37 | | | |

# SOLAR FLARES

## MAY 1962

| OBSERVATORY | DATE MAY 1962 | OBSERVED UNIVERSAL TIME START | END | MAX. PHASE | LOCATION APPROX. LAT. | MER. DIST. | McMATH PLAGE REGION | DURATION — MINUTES | IMPORTANCE | OBS. COND. | MEASUREMENTS TIME — U T | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Ha | MAX. INT. % | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| → SAC PEAK | 04 | 1720 | 1735 | 1725 | N09 | W53 | | | 1- | 2 | | •21 | •27 | | 17 | |
| MCMATH | 04 | 1721 | 1739 | 1724 | N10 | W54 | 6403 | | 1- | 2 | 1724 | •30 | •60 | | | |
| LOCKHEED | 04 | 1724 | 1738 | 1732 | N16 | E90 | | | 1- | 2 | 1732 | •30 | 1•50 | | 20 | |
| LOCKHEED | 04 | 1823 | 1847 | 1828 | N13 | E90 | | | 1- | 2 | 1838 | •30 | 1•50 | | 20 | |
| LOCKHEED | 04 | 1823 | 1847 | 1838 | N13 | E90 | | | 1- | | | | | | | |
| LOCKHEED | 04 | 2011 | 2024 | 2016 | N16 | E90 | | | 1- | 2 | 2016 | •20 | 1•00 | | 20 | |
| LOCKHEED | 04 | 2043 | 2049 | 2045 | N11 | E90 | | | 1- | 2 | 2045 | •20 | 1•00 | | 20 | |
| BUCHAREST | 05 | 0657 | 0721 | | N15 | E85 | 6412 | 24 | 1 | 3 | | | | | | |
| CAPRI S | 05 | 0852 E | 0903 | | N18 | E10 | | | 1- | 3 | 0901 | 1•10 | 1•20 | | | |
| MCMATH | 05 | 1314 | 1327 | 1315 | N10 | W66 | 6403 | | 1- | 2 | 1315 | •20 | •50 | | | |
| MCMATH | 05 | 1322 | 1400 D | 1332 | N11 | E80 | 6412 | | 1- | 2 | 1332 | •30 | 1•00 | | | |
| MCMATH | 05 | 1525 | 1547 | | N11 | E76 | 6412 | | 1- | 1 | 1539 | •20 | •70 | | | |
| SAC PEAK | 05 | 1553 | 1618 | 1559 | N17 | E10 | 6411 | 25 | 1 | 3 | | 2•85 | 2•85 | | 18 | |
| LOCKHEED | 05 | 1554 | 1616 | 1601 | N16 | E09 | | | 1- | 2 | 1601 | 1•50 | 1•50 | | 20 | |
| MCMATH | 05 | 1556 | 1608 | 1559 | N18 | E08 | 6411 | | 1- | 1 | 1559 | 1•20 | 1•20 | | | |
| LOCKHEED | 05 | 1843 | 1926 | 1902 | N13 | W67 | 6403 | 43 | 1 | 2 | 1902 | 1•10 | 2•00 | | 10 | |
| SAC PEAK | 05 | 1845 | 1929 | 1849 | N10 | W68 | 6403 | 44 | 1 | 3 | | 1•86 | 3•36 | | 20 | |
| MCMATH | 05 | 1849 E | 1900 D | | N11 | W70 | 6403 | | 1- | 1 | 1849 | •40 | 1•20 | | | |
| BUCHAREST | 06 | 0855 | 0901 | | N15 | E65 | | | 1- | 3 | | | 1•40 | | | |
| SAC PEAK | 06 | 1348 | 1408 | 1400 | N12 | W77 | 6403 | 20 | 1 | 3 | | •35 | •80 | | 17 | |
| | 07 | 0045 | 0300 | NO FLARE PATROL | | | | | | | | | | | | |
| | 07 | 0315 | 0345 | NO FLARE PATROL | | | | | | | | | | | | |
| | 07 | 0445 | 0500 | NO FLARE PATROL | | | | | | | | | | | | |
| BUCHAREST | 07 | 0710 | 0720 | 0715 | N15 | E50 | | | 1- | 2 | | | 1•90 | | | |
| BUCHAREST | 07 | 0745 | 0800 | | N20 | W20 | | | 1- | | | | 1•20 | | | |
| BUCHAREST | 07 | 0825 | 0835 | 0827 | N15 | E53 | 6412 | 10 | 1 | | | | 3•30 | | | |
| CAPRI S | 07 | 0825 | 0839 D | | N12 | E56 | | | 1- | 3 | 0831 | •60 | 1•20 | | | |
| | 07 | 1000 | 1030 | NO FLARE PATROL | | | | | | | | | | | | |
| SAC PEAK | 07 | 2050 | 2100 | 2052 | N15 | E46 | 6412 | 10 | 1 | 1 | | •29 | •35 | | 15 | |
| | 08 | 0200 | 0300 | NO FLARE PATROL | | | | | | | | | | | | |
| | 08 | 0315 | 0445 | NO FLARE PATROL | | | | | | | | | | | | |
| SAC PEAK | 08 | 1257 | 1306 | 1259 | N16 | E30 | 6412 | 9 | 1 | 3 | | •35 | •37 | | 16 | |
| WENDEL | 09 | 0612 E | 0630 D | | N14 | E27 | 6412 | 18 D | 1+ | | | | 6•00 | | | |
| WENDEL | 09 | 0614 E | 0623 D | | S17 | W24 | | | 1- | | | | | | | |
| BUCHAREST | 09 | 0700 | 0715 | | S18 | W26 | 6414 | 15 | 1 | 3 | | | 2•50 | | | |
| LOCKHEED | 09 | 1815 | 1853 | 1830 | N13 | E21 | | | 1- | 2 | 1830 | 1•50 | 1•50 | | 20 | |
| MCMATH | 09 | 1819 | 1850 | 1825 | N13 | E22 | 6412 | | 1- | 1 | 1825 | •80 | 1•00 | | | |
| SAC PEAK | 09 | 1819 | 1851 | 1839 | N13 | E21 | 6412 | 32 | 1 | 3 | | 1•98 | 2•02 | | 17 | |
| SAC PEAK | 09 | 2025 | 2037 | 2029 | N20 | W49 | | | 1- | 3 | | •56 | •76 | | 17 | |
| | 10 | 0300 | 0430 | NO FLARE PATROL | | | | | | | | | | | | |
| BUCHAREST | 10 | 0802 | 0830 | 0811 | S17 | W39 | 6414 | 28 | 1 | 2 | | | 2•10 | | | |
| SAC PEAK | 10 | 1541 | 1553 | 1546 | S19 | W43 | | | 1- | 3 | | •43 | •52 | | 18 | |
| CLIMAX | 10 | 1733 | 1815 | 1738 | S20 | W44 | | | 1- | | | •10 | •10 | | | |
| SAC PEAK | 10 | 1838 | 1855 | 1846 | S21 | W47 | 6414 | 17 | 1 | 3 | | 2•52 | 3•09 | | 19 | |
| SAC PEAK | 10 | 1905 | 1929 | 1909 | S20 | W47 | 6414 | 24 | 1 | 3 | | 2•45 | 3•03 | | 21 | |

# SOLAR FLARES

## MAY 1962

| OBSERVATORY | DATE MAY 1962 | OBSERVED UNIVERSAL TIME START | END | MAX PHASE | LOCATION APPROX LAT. | MER DIST. | McMATH PLAGE REGION | DURATION — MINUTES | IMPORTANCE | OBS. COND. | MEASUREMENTS TIME U T | MEAS AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX WIDTH Hα | MAX INT. % | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SAC PEAK | 27 | 1918 | 1923 | 1920 | N12 | W21 | | | 1- | 3 | | .52 | .50 | | 16 | |
| SAC PEAK | 27 | 1923 | 1931 | 1928 | N13 | W22 | | | 1- | 3 | | .14 | .12 | | 15 | |
| | 27 | 2300 | 2400 | NO FLARE | PATROL | | | | | | | | | | | |
| | 28 | 0000 | 0045 | NO FLARE | PATROL | | | | | | | | | | | |
| | 28 | 0115 | 0130 | NO FLARE | PATROL | | | | | | | | | | | |
| MCMATH | 28 | 1258 | 1311 | 1302 | S05 | W15 | 6427 | | 1- | 3 | 1302 | .30 | .30 | | | |
| SAC PEAK | 28 | 1555 E | 1725 | 1641 U | S16 | E77 | 6432 | 90 D | 2 | 2 | | 2.41 | 5.55 | | 17 | |
| MCMATH | 28 | 1558 | 1615 | 1605 | S15 | E78 | 6432 | | 1- | 2 | 1605 | .30 | 1.50 | | | |
| MCMATH | 28 | 1629 | 1720 | 1640 | S15 | E78 | 6432 | 51 | 1 | 2 | 1640 | 1.50 | 3.00 | | | Slow S-SWF |
| MCMATH | 28 | 1704 | 1724 | 1707 | N12 | W15 | 6428 | | 1- | 2 | 1707 | .20 | .20 | | | |
| CLIMAX | 28 | 1707 E | 1740 | | N12 | W14 | | | 1- | | 1710 | 1.30 | 1.30 | | | |
| MCMATH | 28 | 1811 | 1824 | 1816 | N11 | W15 | 6428 | | 1- | 2 | 1816 | .20 | .20 | | | |
| HONOLULU | 28 | 1900 | 1918 | 1902 | N12 | W16 | | | 1- | 3 | 1902 | 1.55 | 1.55 | | | |
| MCMATH | 28 | 2125 | 2208 D | 2133 | N15 | W20 | 6428 | | 1- | 2 | 2158 | 1.20 | 1.30 | | | |
| MCMATH | 28 | 2125 | 2208 D | 2158 | N15 | W20 | | | 1- | | | | | | | |
| HONOLULU | 28 | 2132 | 2230 | 2200 | N14 | W21 | 6428 | 58 | 1 | 2 | 2200 | 2.68 | 2.68 | | | |
| SAC PEAK | 28 | 2153 E | 2202 | 2159 | N12 | W22 | | | 1- | 1 | | 1.28 | 1.32 | | 17 | |
| | 29 | 0245 | 0315 | NO FLARE | PATROL | | | | | | | | | | | |
| | 29 | 0545 | 0600 | NO FLARE | PATROL | | | | | | | | | | | |
| CAPRI S | 29 | 0657 E | 0752 | | N15 | W38 | | | 1- | 3 | 0704 | .90 | 1.20 | | | |
| ARCETRI | 29 | 0830 E | 0845 D | | N13 | W42 | 6426 | 15 D | 1 | 3 | 0835 | | | | | |
| CAPRI S | 29 | 0830 | 0849 | | N15 | W38 | | | 1- | 3 | 0832 | 1.20 | 1.60 | | | |
| ONDREJOV | 29 | 0833 E | 0839 D | | N14 | W38 | 6426 | 6 D | 1 | 1 | 0834 | | | 2.30 | | |
| CAPRI S | 29 | 0934 | 0949 | | N14 | W39 | | | 1- | 3 | 0936 | .80 | 1.00 | | | |
| SAC PEAK | 29 | 1759 | 1830 | 1804 | N13 | W48 | 6426 | 31 | 1 | 3 | | 2.72 | 3.53 | | 20 | |
| MCMATH | 29 | 1801 | 1824 | 1804 | N14 | W49 | 6426 | 23 | 1 | 2 | 1804 | 1.00 | 2.20 | | | |
| HONOLULU | 29 | 1802 | 1808 | 1802 | N16 | W49 | | | 1- | 3 | 1802 | 1.00 | 1.30 | | | |
| IKOMASAN | 29 | 2345 | 0010 D | | N13 | W45 | 6426 | 25 D | 1 | | 2347 | 2.06 | | | 90 | |
| | 30 | 0530 | 0545 | NO FLARE | PATROL | | | | | | | | | | | |
| ONDREJOV | 30 | 0751 | 0821 D | | N13 | W51 | 6426 | 30 D | 1 | 2 | 0800 | | | 2.60 | | |
| LOCARNO | 30 | 0752 | 0808 | 0757 | N13 | W53 | 6426 | 16 | 1 | 1 | 0757 | | 1.00 | | | |
| WENDEL | 30 | 0758 E | 0812 D | | N15 | W55 | 6426 | 14 D | 1 | | | | 3.00 | | | |
| ZURICH | 30 | 0809 | 0811 | | S08 | W38 | 6427 | 2 | 1 | 3 | 0809 | | 2.00 | | | |
| WENDEL | 30 | 0810 E | 0812 D | | S06 | W39 | 6427 | 2 D | 1 | | | | 3.00 | | | |
| ONDREJOV | 30 | 0810 E | 0820 | | S09 | W38 | 6427 | 10 D | 1 | 3 | 0814 | | | 2.30 | | |
| SAC PEAK | 30 | 1351 | 1358 | 1353 | S12 | W41 | | | 1- | 2 | | .29 | .33 | | 15 | |
| WENDEL | 30 | 1358 E | 1408 D | | N16 | W55 | | | 1- | | | | | | | |
| CLIMAX | 30 | 1627 | 1645 | 1632 | S11 | W43 | | | 1- | | | .50 | .60 | | | |
| IKOMASAN | 30 | 2318 | 2325 D | | S07 | W42 | 6427 | 7 D | 1 | | 2321 | .82 | | 1.18 | 110 | |
| IKOMASAN | 31 | 0030 E | 0050 D | | S07 | W42 | 6427 | 20 D | 1 | | 0030 | .82 | | 1.34 | 120 | |
| IKOMASAN | 31 | 0156 E | 0215 D | | S10 | W45 | | | 1- | | 0158 | .72 | | .86 | 80 | |
| CAPRI S | 31 | 0652 E | 0658 D | | S07 | W43 | | | 1- | 3 | 0653 | .80 | 1.10 | | | |
| CAPRI S | 31 | 1050 | 1301 D | | N13 | W66 | 6426 | 131 D | 2 | 3 | 1127 | 2.20 | 5.50 | | | |
| ONDREJOV | 31 | 1056 E | 1211 | | N14 | W66 | 6426 | 65 D | 2 | 2 | 1147 | | | 2.60 | | |
| WENDEL | 31 | 1057 E | 1300 D | | N15 | W68 | 6426 | 123 D | 2 | | | | 10.00 | | | G-SWF |
| MCMATH | 31 | 1242 E | 1319 D | | N14 | W70 | 6426 | | 1- | 1 | 1242 | .30 | 1.20 | | | |
| SAC PEAK | 31 | 1254 E | 1340 U | 1254 U | N15 | W70 | | | 1- | 3 | | .85 | 1.53 | | 17 | |

COMMERCE - STANDARDS - BOULDER

# SOLAR FLARES
## MAY 1962

| OBSERVATORY | DATE MAY 1962 | OBSERVED UNIVERSAL TIME START | END | MAX. PHASE | LOCATION APPROX. LAT. | MER. DIST. | McMATH PLAGE REGION | DURATION — MINUTES | IMPORTANCE | OBS. COND. | MEASUREMENTS TIME — U T | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg | MAX. WIDTH Hα | MAX. INT. % | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MCMATH | 18 | 1958 | 2015 | 2005 | S08 | W57 | 6416 | | 1- | 2 | 2005 | •60 | 1.20 | | | |
| SAC PEAK | 18 | 2001 | 2007 | 2004 | S08 | W58 | | | 1- | 3 | | •85 | 1.16 | | 17 | |
| LOCKHEED | 18 | 2138 | 2145 | 2140 | S05 | W54 | | | 1- | 2 | 2140 | •20 | •30 | | 20 | |
| | 19 | 0200 | 0415 | NO FLARE | PATROL | | | | | | | | | | | |
| SAC PEAK | 19 | 1538 | 1547 | 1541 | S12 | W70 | | | 1- | 3 | | •14 | •25 | | 16 | |
| | 19 | 1815 | 1830 | NO FLARE | PATROL | | | | | | | | | | | |
| SAC PEAK | 19 | 1828 | 1912 | 1856 | N05 | E42 | 6424 | 44 | 1 | 2 | | 2.41 | 2.74 | | 19 | |
| MCMATH | 19 | 1855 E | 1945 D | | N05 | E42 | 6424 | | 1- | 2 | 1900 | •80 | 1.40 | | | |
| LOCKHEED | 19 | 1900 E | 1922 | 1905 U | N05 | E41 | | | 1- | 2 | 1905 | 1.10 | 1.30 | | 20 | |
| LOCKHEED | 19 | 1915 | 1927 | 1920 | N11 | E90 | | | 1- | 2 | 1920 | •30 | 1.50 | | 10 | |
| LOCKHEED | 19 | 2349 | 0009 | 2355 | N05 | E36 | | | 1- | 2 | 2355 | •40 | •40 | | 10 | |
| HONOLULU | 20 | 0032 | 0032 D | 0032 | N03 | E39 | | | 1- | 1 | 0032 | •29 | •32 | | | |
| | 20 | 0200 | 0215 | NO FLARE | PATROL | | | | | | | | | | | |
| | 20 | 0300 | 0345 | NO FLARE | PATROL | | | | | | | | | | | |
| | 20 | 0630 | 0715 | NO FLARE | PATROL | | | | | | | | | | | |
| | 20 | 0800 | 0830 | NO FLARE | PATROL | | | | | | | | | | | |
| | 20 | 0845 | 1200 | NO FLARE | PATROL | | | | | | | | | | | |
| SAC PEAK | 20 | 2035 | 2048 | 2040 | N06 | E28 | | | 1- | 3 | | •27 | •27 | | 17 | |
| | 21 | 0230 | 0315 | NO FLARE | PATROL | | | | | | | | | | | |
| ARCETRI | 21 | 1022 E | 1106 D | | N14 | E68 | 6426 | 44 D | 2 | 3 | 1100 | | | | | |
| CAPRI S | 21 | 1054 | 1107 | | N18 | E73 | 6426 | 13 | 2 | 3 | 1055 | 1.00 | 5.00 | | | |
| KODAIKNL | 21 | 1057 | 1059 | | N12 | E62 | | | 1- | 2 | | •58 | 1.38 | | | |
| WENDEL | 21 | 1211 E | 1217 D | | N16 | E58 | | | 1- | | | | | | | |
| WENDEL | 21 | 1438 E | 1500 D | | N16 | E75 | 6426 | 22 D | 1 | | | | 3.00 | | | |
| CAPRI S | 21 | 1441 | 1500 D | | N18 | E61 | | | 1- | 2 | 1446 | •80 | 1.80 | | | |
| LOCKHEED | 21 | 1557 | 1605 | 1600 | N13 | E62 | | | 1- | 1 | 1600 | •80 | 1.30 | | 10 | |
| MCMATH | 21 | 1619 | 1628 | 1621 | S08 | E83 | 6427 | | 1- | 2 | 1621 | •40 | 1.30 | | | |
| MCMATH | 21 | 1930 | 1952 | | S08 | E80 | 6427 | | 1- | 2 | 1932 | •20 | •70 | | | |
| LOCKHEED | 21 | 2040 | 2052 | 2044 | S10 | E80 | | | 1- | 1 | 2044 | •30 | •90 | | 10 | |
| SAC PEAK | 21 | 2041 | 2048 U | 2042 | S11 | E89 | | | 1- | 3 | | •17 | | | 17 | |
| MCMATH | 21 | 2043 | 2052 | 2045 | S10 | E80 | 6427 | | 1- | 1 | 2045 | •20 | •70 | | | |
| SAC PEAK | 21 | 2145 | 2158 | 2153 | S08 | E80 | | | 1- | 3 | | •31 | | | 20 | |
| MCMATH | 21 | 2145 | 2205 D | 2152 | S08 | E79 | 6427 | | 1- | 2 | 2152 | •30 | 1.50 | | | |
| | 22 | 0130 | 0215 | NO FLARE | PATROL | | | | | | | | | | | |
| | 22 | 0300 | 0400 | NO FLARE | PATROL | | | | | | | | | | | |
| IKOMASAN | 22 | 0545 | 0556 | | S08 | E75 | 6427 | 11 | 1 | | 0554 | 1.03 | | •90 | 95 | |
| | 22 | 0645 | 0715 | NO FLARE | PATROL | | | | | | | | | | | |
| | 22 | 0930 | 0945 | NO FLARE | PATROL | | | | | | | | | | | |
| HONOLULU | 22 | 2226 E | 2250 | 2228 | N11 | E49 | | | 1- | 2 | 2228 | •62 | •79 | | | |
| | 23 | 0200 | 0300 | NO FLARE | PATROL | | | | | | | | | | | |
| | 23 | 0330 | 0400 | NO FLARE | PATROL | | | | | | | | | | | |
| | 23 | 0645 | 0715 | NO FLARE | PATROL | | | | | | | | | | | |
| WENDEL | 23 | 0808 E | 0826 D | | N17 | E41 | | | 1- | | | | | | | |
| WENDEL | 23 | 0808 E | 0832 D | | N15 | E48 | | | 1- | | | | | | | |
| | 23 | 0930 | 0945 | NO FLARE | PATROL | | | | | | | | | | | |
| CAPRI S | 23 | 0952 E | 1011 | | N13 | E43 | | | 1- | 2 | 0957 | •70 | 1.00 | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WENDEL | 23 | 0952 | 1026 | | N11 | E39 | 6426 | 34 | 1 | | | | 4.00 | | | |
| ARCETRI | 23 | 0953 E | | | N15 | E35 | 6426 | | 1- | 3 | 0953 | | | | | |
| LOCKHEED | 23 | 2315 | 2330 | 2320 | S08 | E51 | | | 1- | 2 | 2320 | .60 | .80 | | 10 | |
| HONOLULU | 23 | 2320 | 2324 | 2320 | S09 | E51 | | | 1- | 2 | 2320 | .62 | .68 | | | |
| | 24 | 0730 | 0800 | NO FLARE | PATROL | | | | | | | | | | | |
| | 24 | 2315 | 2330 | NO FLARE | PATROL | | | | | | | | | | | |
| HONOLULU | 25 | 0006 | 0020 | 0010 | N04 | E21 | | | 1- | 3 | 0010 | .25 | .25 | | | |
| | 25 | 0130 | 0200 | NO FLARE | PATROL | | | | | | | | | | | |
| IKOMASAN | 25 | 0200 | 0215 D | | N16 | E14 | | | 1- | | 0200 | 1.13 | | | 90 | |
| | 25 | 0245 | 0400 | NO FLARE | PATROL | | | | | | | | | | | |
| CAPRI S | 25 | 0941 E | 1042 D | | S08 | E44 | | | 1- | 3 | 0951 | .90 | 1.30 | | | |
| MCMATH | 25 | 1250 | 1301 | 1253 | S10 | E31 | 6427 | | 1- | 2 | 1253 | .20 | .20 | | | |
| SAC PEAK | 25 | 1820 U | 1855 U | 1837 | S08 | E31 | | | 1- | 3 | | 1.11 | 1.16 | | 17 | |
| MCMATH | 25 | 1821 | 1915 D | 1843 | S10 | E28 | 6427 | | 1- | 1 | 1843 | 1.50 | 1.80 | | | |
| LOCKHEED | 25 | 1835 E | 1910 U | 1850 U | S08 | E29 | | | 1- | 1 | 1850 | .60 | .60 | | 10 | |
| SAC PEAK | 25 | 2002 | 2018 U | 2010 | N15 | E12 | | | 1- | 3 | | 1.44 | 1.42 | | 19 | |
| HONOLULU | 25 | 2004 | 2018 | 2010 | N16 | E12 | | | 1- | 3 | 2010 | 1.40 | 1.40 | | | |
| MCMATH | 25 | 2005 | 2025 | 2010 | N14 | E11 | 6426 | | 1- | 2 | 2010 | 1.30 | 1.40 | | | |
| MCMATH | 25 | 2056 | 2103 D | 2058 | S08 | E22 | 6427 | | 1- | 2 | 2058 | .50 | .50 | | | |
| IKOMASAN | 25 | 2355 E | 0006 D | | N15 | E05 | | | 1- | | 2355 | .52 | | .86 | 100 | |
| IKOMASAN | 26 | 0003 | 0021 D | | S07 | E21 | 6427 | 18 D | 1 | | 0005 | 1.86 | | .90 | 120 | |
| | 26 | 1100 | 1215 | NO FLARE | PATROL | | | | | | | | | | | |
| CLIMAX | 26 | 1228 | 1234 | 1229 | S06 | E16 | | | 1- | | | .50 | .50 | | | |
| SAC PEAK | 26 | 1606 | 1614 | 1607 | S10 | E16 | | | 1- | 3 | | .27 | .25 | | 17 | |
| SAC PEAK | 26 | 1626 | 1637 | 1628 | N20 | W02 | 6426 | 11 | 1 | 3 | | 2.10 | 2.06 | | 17 | |
| WENDEL | 26 | 1713 E | 1720 D | | S06 | E14 | | | 1- | | | | | | | |
| WENDEL | 26 | 1715 E | 1733 D | | N20 | W08 | 6426 | 18 D | 1 | | | | 4.00 | | | |
| SAC PEAK | 26 | 1842 | 1907 | 1844 | S12 | E10 | | | 1- | 3 | | .52 | .50 | | 17 | |
| SAC PEAK | 26 | 2051 | 2058 | 2056 | S08 | E12 | | | 1- | 3 | | .91 | .87 | | 18 | |
| HONOLULU | 26 | 2304 | 2318 | 2310 | S06 | E10 | | | 1- | 3 | 2310 | .82 | .82 | | | |
| LOCKHEED | 26 | 2305 | 2318 | 2307 | S07 | E11 | | | 1- | 2 | 2307 | .50 | .50 | | 10 | |
| SAC PEAK | 26 | 2306 | 2307 D | 2307 | S08 | E12 | | | 1- | 3 | | .66 | .64 | | 18 | |
| HONOLULU | 27 | 0110 | 0114 | 0110 | N17 | W13 | | | 1- | 3 | 0110 | .72 | .72 | | | |
| HONOLULU | 27 | 0156 | 0200 D | 0158 | S08 | E11 | | | 1- | 2 | 0158 | .62 | .62 | | | |
| | 27 | 0200 | 0315 | NO FLARE | PATROL | | | | | | | | | | | |
| | 27 | 0400 | 0545 | NO FLARE | PATROL | | | | | | | | | | | |
| WENDEL | 27 | 0604 E | 0614 D | | S09 | E08 | | | 1- | | | | | | | |
| CAPRI S | 27 | 0646 | 0729 D | | S07 | E10 | | | 1- | 3 | 0717 | .90 | .90 | | | |
| WENDEL | 27 | 1022 E | 1031 D | | N15 | W15 | | | 1- | | | | | | | |
| MCMATH | 27 | 1230 | 1247 | 1235 | S08 | E05 | 6427 | | 1- | 2 | 1235 | .70 | .70 | | | |
| SAC PEAK | 27 | 1511 | 1522 | 1518 | S12 | E00 | | | 1- | 3 | | 1.55 | 1.51 | | 19 | |
| WENDEL | 27 | 1512 E | 1522 D | | S11 | E01 | | | 1- | | | | | | | |
| MCMATH | 27 | 1514 | 1524 | 1519 | S10 | W01 | 6427 | | 1- | 1 | 1519 | .80 | .80 | | | |
| ONDREJOV | 27 | 1515 | 1524 | | S10 | E01 | 6427 | 9 | 1 | 1 | 1518 | | | 2.30 | | |
| SAC PEAK | 27 | 1527 | 1537 | 1533 | S06 | W02 | | | 1- | 3 | | .39 | .37 | | 16 | |
| WENDEL | 27 | 1527 | 1537 D | | S04 | E01 | | | 1- | | | | | | | |
| MCMATH | 27 | 1528 | 1539 | 1533 | S05 | W02 | 6427 | | 1- | 1 | 1533 | .20 | .20 | | | |

# SOLAR FLARES
## MAY 1962

| OBSERVATORY | DATE MAY 1962 | OBSERVED UNIVERSAL TIME START | END | MAX. PHASE | LOCATION APPROX. LAT. | MER. DIST. | McMATH PLAGE REGION | DURATION — MINUTES | IMPORTANCE | OBS. COND. | MEASUREMENTS TIME U T | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOCKHEED | 13 | 2118 E | 2219 | 2134 | S07 | E11 | | | 1- | 1 | 2134 | .90 | .90 | | 30 | |
| | 14 | 0100 | 0415 | NO FLARE | PATROL | | | | | | | | | | | |
| | 14 | 0430 | 0515 | NO FLARE | PATROL | | | | | | | | | | | |
| | 14 | 0530 | 0600 | NO FLARE | PATROL | | | | | | | | | | | |
| | 14 | 1100 | 1200 | NO FLARE | PATROL | | | | | | | | | | | |
| MCMATH | 14 | 1200 E | 1250 D | | S08 | E03 | 6416 | | 1- | 2 | 1203 | 1.00 | 1.00 | | | |
| SAC PEAK | 14 | 1600 | 1607 | 1603 | N22 | E42 | | | 1- | 3 | | .14 | .17 | | 15 | |
| SAC PEAK | 14 | 2040 | 2053 | 2044 | S08 | W01 | | | 1- | 3 | | .72 | .70 | | 15 | |
| SAC PEAK | 14 | 2301 | 2318 | 2307 | S09 | W02 | | | 1- | 3 | | .43 | .41 | | 18 | |
| HONOLULU | 14 | 2310 E | 2318 | 2310 | S07 | W01 | | | 1- | 1 | 2310 | .82 | .82 | | | |
| | 15 | 0115 | 0130 | NO FLARE | PATROL | | | | | | | | | | | |
| | 15 | 0145 | 0715 | NO FLARE | PATROL | | | | | | | | | | | |
| | 15 | 2315 | 2400 | NO FLARE | PATROL | | | | | | | | | | | |
| | 16 | 0000 | 0600 | NO FLARE | PATROL | | | | | | | | | | | |
| | 16 | 0700 | 0715 | NO FLARE | PATROL | | | | | | | | | | | |
| WENDEL | 16 | 1153 E | 1320 | | N08 | W08 | 6417 | 87 D | 1 | | | | 4.00 | | | |
| MCMATH | 16 | 2159 | 2206 | 2200 | S08 | W28 | 6416 | | 1- | 2 | 2200 | .40 | .40 | | | |
| | 16 | 2330 | 2400 | NO FLARE | PATROL | | | | | | | | | | | |
| | 17 | 0000 | 0600 | NO FLARE | PATROL | | | | | | | | | | | |
| | 17 | 0945 | 1000 | NO FLARE | PATROL | | | | | | | | | | | |
| CAPRI S | 17 | 1137 E | 1205 | | S06 | W38 | | | 1- | 3 | 1143 | 1.00 | 1.30 | | | |
| MCMATH | 17 | 1201 E | 1209 | | S09 | W38 | 6416 | | 1- | 2 | 1201 | .50 | .60 | | | |
| MCMATH | 17 | 1345 | 1440 | | S08 | W40 | 6416 | | 1- | 2 | 1400 | .60 | .70 | | | |
| MCMATH | 17 | 1421 | 1430 | 1425 | N07 | E65 | 6424 | | 1- | 2 | 1425 | .50 | 1.10 | | | |
| LOCKHEED | 17 | 1706 | 1714 | 1708 | S06 | E63 | | | 1- | 2 | 1708 | .20 | .30 | | 10 | |
| LOCKHEED | 17 | 2043 | 2055 | 2046 | S05 | W44 | | | 1- | 2 | 2046 | .30 | .40 | | 10 | |
| SAC PEAK | 17 | 2046 | 2051 | 2049 | S08 | W44 | | | 1- | 3 | | 1.26 | 1.46 | | 17 | |
| MCMATH | 17 | 2046 | 2101 | 2050 | S08 | W44 | 6416 | 15 | 1 | 2 | 2050 | 1.40 | 2.00 | | | |
| HONOLULU | 17 | 2048 | 2054 D | 2048 | S05 | W41 | 6416 | 6 D | 1 | 2 | 2048 | 3.30 | 3.80 | | | |
| LOCKHEED | 17 | 2137 | 2145 | 2140 | S07 | W44 | | | 1- | 2 | 2140 | .30 | .40 | | 10 | |
| MCMATH | 17 | 2139 | 2147 | 2141 | S09 | W45 | 6416 | | 1- | 2 | 2141 | .30 | .40 | | | |
| LOCKHEED | 17 | 2345 | 2353 | 2347 | S06 | E05 | | | 1- | 2 | 2347 | .10 | .10 | | 10 | |
| | 18 | 0045 | 0100 | NO FLARE | PATROL | | | | | | | | | | | |
| | 18 | 0145 | 0230 | NO FLARE | PATROL | | | | | | | | | | | |
| | 18 | 0245 | 0630 | NO FLARE | PATROL | | | | | | | | | | | |
| | 18 | 1100 | 1130 | NO FLARE | PATROL | | | | | | | | | | | |
| MCMATH | 18 | 1233 | 1253 | 1235 | S08 | W51 | 6416 | | 1- | 2 | 1235 | .60 | 1.20 | | | |
| MCMATH | 18 | 1409 | 1448 | 1423 | S07 | W52 | 6416 | 39 | 1 | 2 | 1423 | 1.60 | 2.50 | | | |
| SAC PEAK | 18 | 1414 | 1452 | 1423 | S07 | W53 | | | 1- | 3 | | 1.40 | 1.84 | | 17 | |
| ONDREJOV | 18 | 1429 E | 1442 | | S08 | W50 | 6416 | 13 D | 1 | 3 | 1429 | | | 2.00 | | |
| SAC PEAK | 18 | 1530 | 1546 | 1534 | S12 | W58 | 6416 | 16 | 1 | 3 | | 2.27 | 3.11 | | 22 | |
| MCMATH | 18 | 1532 | 1609 | 1535 | S10 | W55 | 6416 | 37 | 1+ | 2 | 1535 | 2.20 | 4.10 | | | |
| CAPRI S | 18 | 1535 E | 1549 | | S10 | W55 | 6416 | 14 D | 1 | 2 | 1538 | .80 | 1.30 | | | |
| LOCKHEED | 18 | 1607 E | 1630 | 1614 | S05 | W65 | | | 1- | 2 | 1614 | .30 | .50 | | 10 | |
| LOCKHEED | 18 | 1853 | 1900 | 1855 | N06 | E48 | | | 1- | 2 | 1855 | .40 | .50 | | 10 | |
| MCMATH | 18 | 1855 | 1900 | 1857 | N06 | E48 | 6424 | | 1- | 2 | 1857 | .30 | .40 | | | |

# SOLAR FLARES
## MAY 1962

| OBSERVATORY | DATE MAY 1962 | OBSERVED UNIVERSAL TIME | | | LOCATION | | | DURATION — MINUTES | IMPORTANCE | OBS. COND. | MEASUREMENTS | | | | | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER DIST | McMATH PLAGE REGION | | | | TIME U T | MEAS AREA Sq Deg | CORR. AREA Sq Deg | MAX WIDTH Ha | MAX INT. % | |
| SAC PEAK | 31 | 1449 | 1459 | 1454 | N15 | W78 | | | 1- | 3 | | .37 | .85 | | 16 | |
| SAC PEAK | 31 | 1615 | 1624 | 1621 | N16 | W79 | | | 1- | 3 | | .41 | .93 | | 15 | |
| SAC PEAK | 31 | 2046 | 2056 | 2052 | N16 | W80 | | | 1- | 2 | | .43 | .87 | | 17 | |
| SAC PEAK | 31 | 2056 | 2106 | 2103 | S11 | W59 | | | 1- | 2 | | .43 | .64 | | 16 | |
| IKOMASAN | 31 | 2337 | 2352 D | | N15 | W72 | | | 1- | | 2340 | .72 | | .98 | 70 | |

COMMERCE - STANDARDS - BOULDER

| | |
|---|---|
| ATHENES | ATHENS, GREECE |
| BAKOU | PIRCULI, USSR |
| CAPETOWN | ROYAL OBSERVATORY, CAPE OF GOOD HOPE |
| CAPRI F | CAPRI, ITALY (GERMAN) |
| CAPRI S | CAPRI, ITALY (SWEDISH) |
| CRIMÉE | SIMEIZ, USSR |
| HERSTMONCEU | ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX, ENGLAND |
| HONOLULU | HAWAII, USA |
| IKOMASAN | KYOTO, JAPAN |
| KIEV KO | KIEV GAO, USSR |
| KIEV KY | KIEV UNIVERSITY, USSR |
| LOCKHEED | LOS ANGELES, CALIF., USA |
| MCMATH | MCMATH-HULBERT PONTIAC, MICH., USA |
| MOSCOU | MOSCOW-GAISH, USSR |
| NERA | NEDERHORST den BERGH, NETHERLANDS |
| NIZMIR | KRASNAYA PAKHRA, USSR |
| SAC PEAK | SACRAMENTO PEAK, N.MEX. USA |
| SALTSJÖBADEN | STOCKHOLM, SWEDEN |
| SCHAUINS | SCHAUINSLAND, GFR |
| TACHKENT | TASHKENT, USSR |
| WENDEL | WENDELSTEIN, GFR |

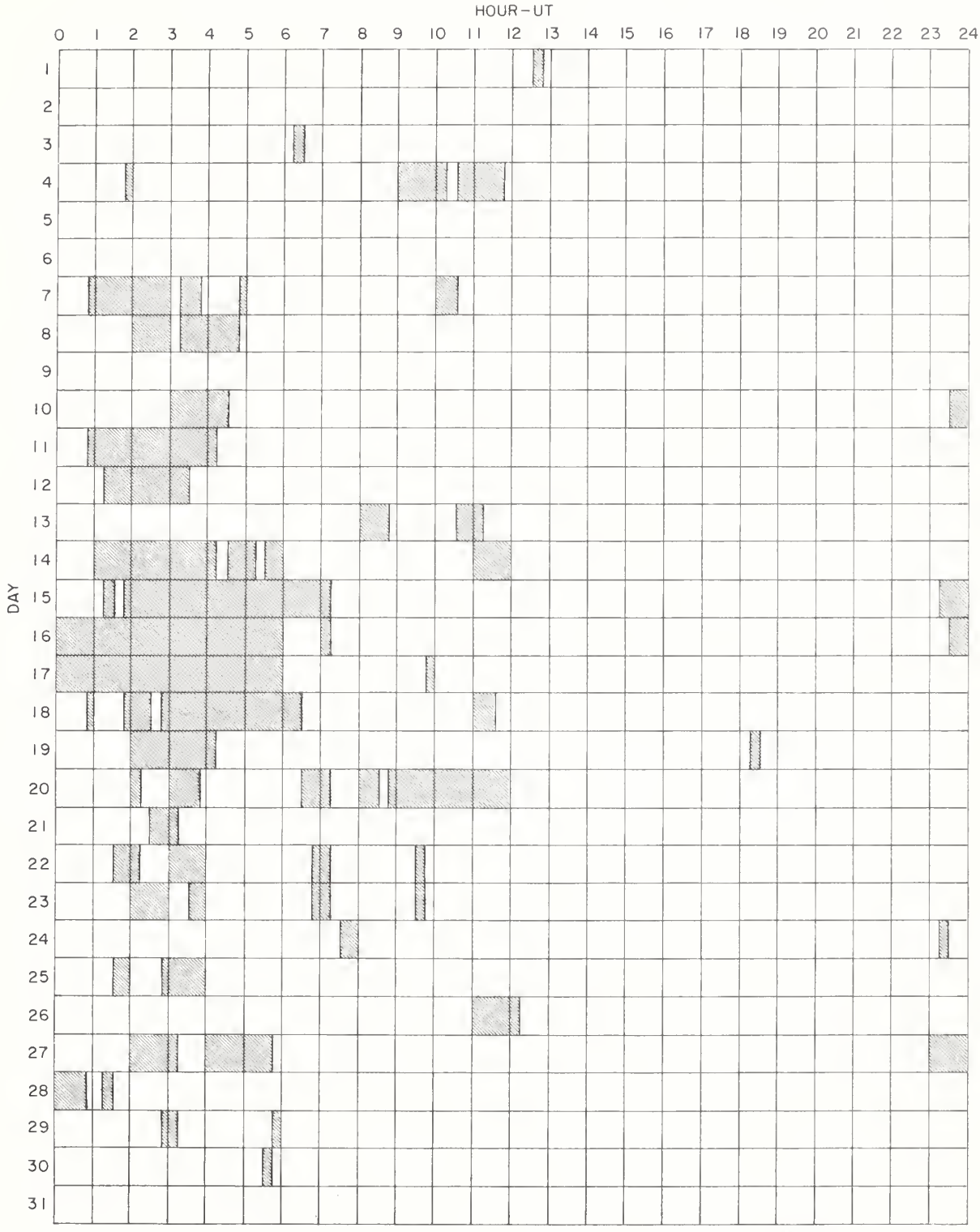
ALL VALUES IN THE MAXIMUM INTENSITY COLUMN FOR SAC PEAK ARE ARBITRARY UNITS (0-40) AND FOR LOCKHEED ARE ARBITRARY UNITS (10-40), NOT PERCENT OF CONTINUOUS SPECTRUM.

SEE DESCRIPTIVE TEXT PUBLISHED NOVEMBER 1961 FOR DEFINITION OF CORRECTED AREA VALUES LISTED FOR CLIMAX, HAWAII, LOCKHEED AND SACRAMENTO PEAK.

E = LESS THAN  D = GREATER THAN  U = APPROXIMATE  □ = NOT REPORTED.

# INTERVALS OF NO FLARE PATROL OBSERVATIONS

MAY 1962




Stations Include:

| | | | |
|---|---|---|---|
| Arcetri | Herstmonceux | Istanbul | Mitaka |
| Bucharest | Honolulu | Kodaikanal | Ondrejov |
| Capri (Swedish) | Huancayo | Lockheed | Sacramento Peak |
| Climax | Ikomasan | McMath-Hulbert | Wendelstein |

# SOLAR FLARES
## FEBRUARY 1962

| OBSERVATORY | DATE FEB 1962 | OBSERVED UNIVERSAL TIME START | END | MAX. PHASE | LOCATION APPROX LAT. | MER. DIST. | McMATH PLAGE REGION | DURATION — MINUTES | IMPORTANCE | OBS. COND. | MEASUREMENTS TIME — U T | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX WIDTH Ha | MAX INT. % | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOROSHILOV | 01 | 0205 | 0209 | 0207 | N09 | W35 | | | 1- | 2 | | .18 | | | 89 | |
| VOROSHILOV | 01 | 0746 | 0250 | 0246 | N09 | W35 | | | 1- | 2 | | .44 | | | 66 | |
| NIZMIR | 01 | 0901 | 0940 | 0907 | N08 | E33 | 6334 | 39 | 1 | | | 3.16 | | | 65 | |
| NIZMIR | 01 | 0922 | 1034 | 0936 | N11 | E38 | | | 1- | | | 1.34 | | | 70 | |
| CAPRI F | 01 | 0920 E | 1110 D | 1019 | N10 | W38 | 6326 | 110 D | 2 | 1 | 1019 | 9.00 | | | | |
| UCCLE | 01 | 1345 | 1407 D | 1347 | N08 | W45 | | | 1- | 2 | 1347 | | | | | |
| CLIMAX | 01 | 1549 E | 1730 | 1659 | N09 | W41 | 6326 | 101 D | 1 | | | 2.10 | 2.30 | | | S-SWF |
| CLIMAX | 01 | 1817 | 1830 | 1820 | N10 | W41 | | | 1- | | | .60 | .70 | | | |
| CLIMAX | 01 | 2334 | 2340 | 2337 | N10 | W24 | | | 1- | | | .30 | .40 | | | |
| | 02 | 0600 | 0615 | NO FLARE | PATROL | | | | | | | | | | | |
| CAPETOWN | 02 | 1247 | 1319 D | 1250 | N10 | W49 | | | 1- | | 1250 | .90 | 1.40 | | | |
| UCCLE | 02 | 1247 | 1350 D | 1255 | N08 | W50 | 6326 | 63 D | 1 | 2 | 1255 | 2.50 | 3.00 | | | |
| UCCLE | 02 | 1358 | 1409 | | N08 | W50 | | | 1- | 3 | | | | | | |
| UCCLE | 02 | 1359 | 1434 | | N10 | W57 | | | 1- | 3 | | | | | | |
| UCCLE | 02 | 1414 | 1417 | | N07 | E36 | | | 1- | 3 | | | | | | |
| UCCLE | 02 | 1502 | 1517 | | N15 | W46 | | | 1- | 3 | | | | | | |
| | 03 | 0615 | 0630 | NO FLARE | PATROL | | | | | | | | | | | |
| | 03 | 0645 | 0800 | NO FLARE | PATROL | | | | | | | | | | | |
| CAPETOWN | 03 | 1213 | 1222 | 1214 | N10 | W63 | | | 1- | | 1214 | 1.10 | 2.60 | | | |
| CAPRI F | 03 | 1220 E | 1250 D | 1233 | N11 | W66 | 6326 | 30 D | 2 | 2 | 1233 | 5.00 | | | | |
| CAPETOWN | 03 | 1223 | 1239 D | 1237 | N10 | W73 | 6326 | 16 D | 1 | | 1237 | .70 | | | | |
| CLIMAX | 03 | 2126 | 2140 | 2130 | N09 | W80 | 6326 | 14 | 1 | | | .90 | 2.40 | | | |
| VOROSHILOV | 03 | 2347 | 2359 | 2350 | N12 | W85 | 6326 | 12 | 2 | 2 | | 1.62 | | | 102 | |
| ALMA ATA | 04 | 0536 | 0554 | 0538 | N11 | W88 | 6326 | 18 | 1 | | 0538 | .62 | | | 59 | |
| ALMA ATA | 04 | 0810 | 0817 | 0811 | N10 | W78 | 6326 | 7 | 1 | | 0811 | .62 | | | 50 | |
| CAPETOWN | 04 | 1156 | 1235 | 1204 | N12 | W90 | 6326 | 39 | 1 | | 1204 | .60 | | | | |
| CAPETOWN | 04 | 1333 | 1357 | 1346 | N11 | W79 | | | 1- | | 1346 | .40 | | | | |
| CAPETOWN | 04 | 1355 | 1417 D | 1402 | N12 | W90 | 6326 | 22 D | 1 | | 1402 | .60 | | | | |
| | 04 | 1430 | 1445 | NO FLARE | PATROL | | | | | | | | | | | |
| CLIMAX | 04 | 1500 E | 1526 D | 1513 | N10 | W80 | | | 1- | | | .40 | 1.10 | | | |
| CLIMAX | 04 | 1720 | 1739 D | 1732 | N10 | W80 | | | 1- | | | .40 | 1.10 | | | |
| CLIMAX | 04 | 2049 | 2104 | 2055 | N13 | W90 | 6326 | 15 | 2 | | | 1.10 | 5.50 | | | |
| CAPETOWN | 05 | 0741 | 0804 | 0749 | N13 | W90 | 6326 | 23 | 1 | | 0749 | .40 | | | | |
| CAPETOWN | 05 | 1009 | 1042 | 1026 | N11 | W90 | 6326 | 33 | 1 | | 1026 | .20 | | | | |
| | 06 | 0530 | 0630 | NO FLARE | PATROL | | | | | | | | | | | |
| CAPETOWN | 06 | 1052 | 1124 | 1058 | N07 | W18 | | | 1- | | 1058 | 1.80 | 1.90 | | | |
| MEUDON | 06 | 1057 | 1115 | | N06 | W22 | | | 1- | | | | | | | |
| CLIMAX | 06 | 1624 | 1632 | 1626 | N08 | W10 | | | 1- | | | .40 | .40 | | | |
| ALMA ATA | 07 | 0644 | 0656 | 0646 | N06 | W30 | | | 1- | | 0646 | .72 | | | 57 | |
| | 08 | 2245 | 2400 | NO FLARE | PATROL | | | | | | | | | | | |
| | 09 | 0000 | 0030 | NO FLARE | PATROL | | | | | | | | | | | |
| UCCLE | 09 | 0939 | 0943 | | N05 | W50 | | | 1- | 3 | | | | | | |
| UCCLE | 09 | 1517 | 1526 D | | N05 | W65 | | | 1- | 3 | | | | | | |

# SOLAR FLARES
## FEBRUARY 1962

| OBSERVATORY | DATE FEB 1962 | OBSERVED UNIVERSAL TIME START | END | MAX. PHASE | LOCATION APPROX. LAT. | MER DIST | McMATH PLAGE REGION | DURATION — MINUTES | IMPORTANCE | OBS. COND. | MEASUREMENTS TIME U T | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg. | MAX. WIDTH Hα | MAX. INT. % | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 09 | 2245 | 2315 | NO FLARE | PATROL | | | | | | | | | | | |
| | 09 | 2345 | 2400 | NO FLARE | PATROL | | | | | | | | | | | |
| | 10 | 0000 | 0015 | NO FLARE | PATROL | | | | | | | | | | | |
| | 10 | 0115 | 0145 | NO FLARE | PATROL | | | | | | | | | | | |
| ALMA ATA | 10 | 0615 | 0625 | 0616 | N07 | W69 | 6334 | 10 | 1 | | 0616 | •80 | | | 61 | |
| CAPETOWN | 10 | 0912 | 0921 | 0917 | N06 | W68 | | | 1- | | 0917 | •70 | 2•00 | | | |
| | 10 | 2215 | 2330 | NO FLARE | PATROL | | | | | | | | | | | |
| CLIMAX | 10 | 2341 | 2347 | 2343 | N06 | W90 | 6334 | 6 | 1 | | | •60 | 3•00 | | | |
| UCCLE | 11 | 1031 E | 1048 | | N04 | W88 | | | 1- | 3 | | | | | | |
| UCCLE | 11 | 1051 | 1124 D | | N04 | W88 | | | 1- | 3 | | | | | | |
| | 11 | 1400 | 1500 | NO FLARE | PATROL | | | | | | | | | | | |
| CLIMAX | 11 | 1455 E | 1512 | | N16 | E90 | | | 1- | | 1456 | •40 | 2•00 | | | |
| CLIMAX | 11 | 1516 | 1534 | 1524 | N15 | E90 | 6344 | 18 | 1 | | | •80 | 4•00 | | | |
| CLIMAX | 11 | 1545 | 1601 | 1552 | N15 | E90 | 6344 | 16 | 1 | | | •70 | 3•50 | | | |
| | 11 | 2330 | 2400 | NO FLARE | PATROL | | | | | | | | | | | |
| | 12 | 0000 | 0015 | NO FLARE | PATROL | | | | | | | | | | | |
| | 12 | 1615 | 1630 | NO FLARE | PATROL | | | | | | | | | | | |
| | 13 | 1330 | 1445 | NO FLARE | PATROL | | | | | | | | | | | |
| | 13 | 1500 | 1515 | NO FLARE | PATROL | | | | | | | | | | | |
| | 13 | 1545 | 1615 | NO FLARE | PATROL | | | | | | | | | | | |
| | 13 | 1630 | 1645 | NO FLARE | PATROL | | | | | | | | | | | |
| | 13 | 2300 | 2315 | NO FLARE | PATROL | | | | | | | | | | | |
| UCCLE | 14 | 0852 | 0857 | | N15 | E70 | | | 1- | 3 | | | | | | |
| | 14 | 1645 | 1700 | NO FLARE | PATROL | | | | | | | | | | | |
| | 14 | 1745 | 1800 | NO FLARE | PATROL | | | | | | | | | | | |
| | 14 | 1815 | 1930 | NO FLARE | PATROL | | | | | | | | | | | |
| | 14 | 1945 | 2100 | NO FLARE | PATROL | | | | | | | | | | | |
| | 14 | 2230 | 2300 | NO FLARE | PATROL | | | | | | | | | | | |
| | 15 | 2245 | 2400 | NO FLARE | PATROL | | | | | | | | | | | |
| | 16 | 2200 | 2400 | NO FLARE | PATROL | | | | | | | | | | | |
| | 17 | 0000 | 0030 | NO FLARE | PATROL | | | | | | | | | | | |
| | 17 | 0800 | 0815 | NO FLARE | PATROL | | | | | | | | | | | |
| | 17 | 0830 | 0845 | NO FLARE | PATROL | | | | | | | | | | | |
| UCCLE | 17 | 0956 | 1003 | | S10 | E70 | | | 1- | 3 | | | | | | |
| | 17 | 1015 | 1045 | NO FLARE | PATROL | | | | | | | | | | | |
| | 17 | 1200 | 1315 | NO FLARE | PATROL | | | | | | | | | | | |
| | 18 | 0730 | 0745 | NO FLARE | PATROL | | | | | | | | | | | |
| | 18 | 0845 | 0900 | NO FLARE | PATROL | | | | | | | | | | | |
| | 18 | 1015 | 1030 | NO FLARE | PATROL | | | | | | | | | | | |
| | 18 | 1145 | 1415 | NO FLARE | PATROL | | | | | | | | | | | |
| | 19 | 0545 | 0700 | NO FLARE | PATROL | | | | | | | | | | | |

# SOLAR FLARES
## FEBRUARY 1962

| OBSERVATORY | DATE FEB 1962 | OBSERVED UNIVERSAL TIME START | END | MAX. PHASE | LOCATION APPROX. LAT | MER DIST. | McMATH PLAGE REGION | DURATION — MINUTES | IMPORTANCE | OBS. COND. | MEASUREMENTS TIME — U T | MEAS. AREA Sq Deg | CORR. AREA Sq. Deg. | MAX. WIDTH Ha | MAX INT. °A | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAPRI F | 19 | 0912 E | 0917 | 0912 | N13 | E81 | 6352 | 5 D | 1 | 2 | 0913 | 1.00 | | | | |
| CAPRI F | 19 | 0912 E | 0919 | 0912 | S08 | E76 | 6351 | 7 D | 1 | 2 | 0913 | 2.00 | | | | |
| CAPETOWN | 19 | 1146 | 1157 | 1147 | S09 | E85 | 6351 | 11 | 1 | | 1147 | .60 | | | | |
| CAPETOWN | 19 | 1222 | 1316 D | | N12 | E82 | 6352 | 54 D | 1 | | 1316 | 1.60 | | | | |
| CAPRI F | 19 | 1245 E | 1505 D | 1245 | S08 | E78 | 6351 | 140 D | 2 | 2 | 1246 | 5.00 | | | | Slow S-SWF |
| CLIMAX | 19 | 1811 | 1825 | 1819 | N10 | E90 | 6352 | 14 | 2 | | | 1.20 | 6.00 | | | |
| ALMA ATA | 20 | 0548 | 0619 | 0556 | S09 | E82 | 6351 | 31 | 2 | | 0556 | 2.06 | | | 82 | S-SWF |
| TACHKENT | 20 | 0548 | 0624 | 0600 | S11 | E80 | 6351 | 36 | 2 | 2 | 0600 | 6.11 | 6.10 | 3.50 | 105 | |
| | 20 | 2245 | 2300 | NO FLARE | PATROL | | | | | | | | | | | |
| | 20 | 2315 | 2400 | NO FLARE | PATROL | | | | | | | | | | | |
| CAPETOWN | 21 | 0759 | 0812 | 0800 | S09 | E59 | | | 1- | | 0800 | .90 | 1.80 | | | |
| CAPETOWN | 21 | 0815 | 0850 | 0821 | S09 | E59 | 6351 | 35 | 1 | | 0821 | 1.70 | 3.40 | | | |
| CAPETOWN | 21 | 0916 | 0926 | 0917 | S09 | E59 | 6351 | 10 | 1 | | 0917 | 1.10 | 2.20 | | | |
| UCCLE | 21 | 1030 | 1037 | | S11 | E57 | | | 1- | 3 | | 1.20 | 2.30 | | | |
| UCCLE | 21 | 1122 | 1124 | | S10 | E23 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1141 | 1150 | | S11 | E57 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1211 | 1226 | 1219 | S11 | E57 | | | 1- | 3 | 1219 | | | | | |
| UCCLE | 21 | 1233 | 1238 | | S11 | E57 | | | 1- | 3 | | .80 | 1.50 | | | |
| UCCLE | 21 | 1244 | 1248 | | S10 | E53 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1323 | 1326 | | S10 | E54 | 6351 | 3 | 1 | 3 | | 1.60 | 2.30 | | | |
| UCCLE | 21 | 1329 | 1332 | | S10 | E54 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1335 | 1344 | | S10 | E54 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1426 | 1433 | 1430 | S10 | E53 | 6351 | 7 | 1 | 3 | 1430 | .20 | 3.20 | | | |
| UCCLE | 21 | 1444 | 1501 D | | S15 | E19 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1444 | 1503 | | N08 | E65 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1448 | 1456 | | S10 | E53 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1502 | 1505 | | S10 | E53 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1506 | 1513 | | S10 | E53 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1528 | 1538 | 1534 | N10 | E63 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1531 | 1533 D | 1533 | S15 | E58 | | | 1- | 3 | 1533 | | | | | |
| UCCLE | 21 | 1549 | 1553 | | S10 | E53 | | | 1- | 3 | | | | | | |
| UCCLE | 21 | 1610 | 1623 D | | N14 | E60 | | | 1- | 3 | | | | | | |
| | 21 | 2300 | 2400 | NO FLARE | PATROL | | | | | | | | | | | |
| | 22 | 0545 | 0600 | NO FLARE | PATROL | | | | | | | | | | | |
| | 22 | 0615 | 0630 | NO FLARE | PATROL | | | | | | | | | | | |
| | 22 | 0645 | 0715 | NO FLARE | PATROL | | | | | | | | | | | |
| UCCLE | 22 | 0836 | 0843 | | N17 | E88 | | | 1- | 3 | | | | | | |
| UCCLE | 22 | 0851 | 0902 | 0854 | N17 | E88 | | | 1- | 3 | 0854 | | | | | |
| UCCLE | 22 | 0851 | 0901 | 0853 | N12 | E53 | 6352 | 10 | 1 | 3 | 0853 | 2.50 | 4.00 | | | |
| CAPETOWN | 22 | 0852 | 0910 | 0854 | N14 | E52 | 6352 | 18 | 1 | | 0854 | 1.20 | 2.20 | | | |
| BAKOU | 22 | 0858 | 0911 | 0903 | N15 | E50 | 6352 | 13 | 1+ | 2 | 0903 | 4.11 | 7.25 | | 61 | |
| UCCLE | 22 | 0911 | 1021 | | N17 | E88 | | | 1- | 3 | | | | | | |
| UCCLE | 22 | 0947 | 1010 D | 0952 | N17 | E88 | 6353 | 23 D | 1 | 3 | | 2.50 | 3.00 | | | |
| UCCLE | 22 | 0947 | 1010 D | 0959 | N17 | E88 | | | 1 | | | | | | | |
| BAKOU | 22 | 0950 E | 1035 | 1003 | S09 | E47 | 6351 | 45 D | 1+ | 2 | 1003 | 7.75 | 11.40 | | 66 | |
| CAPETOWN | 22 | 0952 | 1045 | 1006 | S09 | E43 | 6351 | 53 | 1 | | 1006 | 2.10 | 2.90 | | | |
| | 22 | 1400 | 1545 | NO FLARE | PATROL | | | | | | | | | | | |
| | 22 | 1600 | 1615 | NO FLARE | PATROL | | | | | | | | | | | |

# SOLAR FLARES
## FEBRUARY 1962

| OBSERVATORY | DATE FEB 1962 | OBSERVED UNIVERSAL TIME | | | LOCATION | | | DURATION — MINUTES | IMPORTANCE | OBS. COND. | MEASUREMENTS | | | | | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | START | END | MAX. PHASE | APPROX. LAT. | APPROX. MER. DIST | McMATH PLAGE REGION | | | | TIME — U T | MEAS. AREA Sq. Deg. | CORR. AREA Sq. Deg | MAX. WIDTH He | MAX. INT. % | |
| CLIMAX | 22 | 1740 E | 1751 D | | S06 | E40 | 6351 | 11 D | 1 | | 1751 | 3.10 | 3.40 | | | |
| CLIMAX | 22 | 1938 | 1952 | 1941 | S06 | E38 | | | 1- | | | 1.10 | 1.20 | | | |
| CLIMAX | 22 | 2012 | 2035 | 2017 | S06 | E38 | | | 1- | | | 1.30 | 1.40 | | | |
| CLIMAX | 22 | 2033 | 2035 D | | N10 | E42 | | | 1- | | 2035 | .20 | .20 | | | |
| CLIMAX | 22 | 2200 | 2204 D | 2204 | N15 | E45 | | | 1- | | | .30 | .30 | | | |
| ALMA ATA | 23 | 0446 | 0448 | 0446 | S09 | E33 | | | 1- | | 0446 | .61 | | | 63 | |
| | 23 | 0615 | 0645 | NO FLARE | PATROL | | | | | | | | | | | |
| UCCLE | 23 | 0939 | 0951 | | S12 | E35 | | | 1- | 3 | | | | | | |
| UCCLE | 23 | 1219 | 1223 | | N13 | E33 | | | 1- | 3 | | | | | | |
| UCCLE | 23 | 1300 | 1304 | | S12 | E28 | | | 1- | 3 | | | | | | |
| | 23 | 1315 | 1345 | NO FLARE | PATROL | | | | | | | | | | | |
| UCCLE | 23 | 1351 | 1355 | | N13 | E36 | | | 1- | 3 | | | | | | |
| UCCLE | 23 | 1353 | 1415 | | N10 | E38 | | | 1- | 3 | | | | | | |
| UCCLE | 23 | 1416 | 1419 | | N12 | E30 | | | 1- | 3 | | | | | | |
| UCCLE | 23 | 1429 | 1432 | | N10 | E38 | | | 1- | 3 | | | | | | |
| UCCLE | 23 | 1521 | 1533 | | S12 | E30 | | | 1- | 3 | | | | | | |
| UCCLE | 23 | 1521 | 1543 | | N13 | E34 | | | 1- | 3 | | | | | | |
| UCCLE | 23 | 1539 | 1551 | | S12 | E36 | | | 1- | 3 | | | | | | |
| UCCLE | 23 | 1539 | 1554 | 1541 | N10 | E33 | | | 1- | 3 | | | | | | |
| UCCLE | 23 | 1556 | 1610 D | | S12 | E32 | | | 1- | 3 | | | | | | |
| | 23 | 2300 | 2345 | NO FLARE | PATROL | | | | | | | | | | | |
| | 24 | 0045 | 0130 | NO FLARE | PATROL | | | | | | | | | | | |
| | 24 | 0615 | 0630 | NO FLARE | PATROL | | | | | | | | | | | |
| ALMA ATA | 24 | 0720 | 0730 D | 0724 | S12 | E22 | | | 1- | | 0724 | .51 | | | 61 | |
| CAPRI F | 24 | 0742 E | 0746 D | | S10 | E19 | 6351 | 4 D | 1 | 1 | 0742 | | 4.00 | | | |
| UCCLE | 24 | 0852 E | 1027 | | S12 | E19 | | | 1- | 3 | | | | | | |
| UCCLE | 24 | 1031 | 1056 | 1046 | S12 | E19 | | | 1- | 3 | 1046 | | | | | |
| | 24 | 1530 | 1545 | NO FLARE | PATROL | | | | | | | | | | | |
| CLIMAX | 24 | 1620 | 1635 | 1625 | S13 | E10 | | | 1- | | | .70 | .70 | | | |
| CLIMAX | 24 | 1944 | 1952 D | 1947 | N20 | E44 | | | 1- | | | .40 | .40 | | | |
| | 24 | 2300 | 2315 | NO FLARE | PATROL | | | | | | | | | | | |
| ALMA ATA | 25 | 0453 | 0503 | 0454 | S09 | E06 | | | 1- | | 0454 | .80 | | | 61 | |
| | 25 | 2300 | 2315 | NO FLARE | PATROL | | | | | | | | | | | |
| ALMA ATA | 26 | 0411 | 0412 | 0412 | S12 | E02 | | | 1- | | 0412 | .61 | | | 66 | |
| UCCLE | 26 | 1403 | 1405 | | S11 | W14 | | | 1- | 3 | | | | | | |
| | 26 | 1445 | 1500 | NO FLARE | PATROL | | | | | | | | | | | |
| | 26 | 2100 | 2115 | NO FLARE | PATROL | | | | | | | | | | | |
| | 26 | 2300 | 2345 | NO FLARE | PATROL | | | | | | | | | | | |
| UCCLE | 27 | 0933 | 0953 | | N06 | E60 | | | 1- | 3 | | | | | | |
| UCCLE | 27 | 1009 | 1026 | 1019 | S12 | W25 | | | 1- | 3 | 1019 | 1.00 | 1.50 | | | |
| ALMA ATA | 27 | 1012 | 1015 | 1014 | S15 | W27 | | | 1- | | 1014 | 1.01 | | | 68 | |
| ALMA ATA | 27 | 1018 | 1026 | 1022 | S15 | W27 | | | 1- | | 1022 | 1.41 | | | 74 | |
| UCCLE | 27 | 1136 | 1145 | | S14 | W27 | | | 1- | 3 | | | | | | |
| UCCLE | 27 | 1200 | 1205 | | S18 | W12 | | | 1- | 3 | | | | | | |
| UCCLE | 27 | 1223 | 1233 | | S14 | W27 | | | 1- | 3 | | | | | | |
| UCCLE | 27 | 1259 | 1309 | | S14 | W32 | | | 1- | 3 | | | | | | |

# SOLAR FLARES
## FEBRUARY 1962

| OBSERVATORY | DATE FEB 1962 | OBSERVED UNIVERSAL TIME START | END | MAX PHASE | LOCATION APPROX LAT. | MER DIST. | McMATH PLAGE REGION | DURATION — MINUTES | IMPORTANCE | OBS COND. | MEASUREMENTS TIME — U T | MEAS AREA Sq Deg | CORR AREA Sq Deg | MAX WIDTH Ha | MAX INT | PROVISIONAL IONOSPHERIC EFFECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UCCLE | 27 | 1312 | 1322 | | S11 | W17 | | | 1- | 3 | | | | | | |
| UCCLE | 27 | 1334 | 1344 | | S11 | W17 | | | 1- | 3 | | | | | | |
| UCCLE | 27 | 1358 | 1402 | | S11 | W17 | | | 1- | 3 | | | | | | |
| UCCLE | 27 | 1401 | 1408 | 1403 | S14 | W30 | | | 1- | 3 | 1403 | 2.00 | 2.40 | | | |
| UCCLE | 27 | 1410 | 1414 | 1412 | S11 | W17 | | | 1- | 3 | 1412 | | | | | |
| UCCLE | 27 | 1421 | 1428 | | S09 | W31 | | | 1- | 3 | | | | | | |
| | 27 | 2215 | 2245 | NO FLARE | PATROL | | | | | | | | | | | |
| TACHKENT | 28 | 0503 | 0532 | | S15 | W39 | 6351 | 29 | 1 | 3 | | 1.92 | 2.40 | 1.60 | 50 | |
| ALMA ATA | 28 | 0648 | 0710 D | 0654 | S13 | W38 | 6351 | 22 D | 2 | | 0654 | 2.01 | | | 84 | |
| TACHKENT | 28 | 0648 | 0732 | 0650 | S15 | W39 | 6351 | 44 | 2 | 3 | 0650 | 4.37 | 5.60 | 2.80 | 85 | S-SWF |
| CAPETOWN | 28 | 0648 | 0735 | 0654 | S12 | W38 | 6351 | 47 | 2 | | 0654 | 6.40 | 8.20 | | | |
| UCCLE | 28 | 1030 | 1033 | 1032 | S11 | W36 | | | 1- | 3 | 1032 | | | | | |
| UCCLE | 28 | 1031 | 1033 | 1032 | S13 | W44 | | | 1- | 3 | 1032 | | | | | |
| UCCLE | 28 | 1039 | 1044 | 1042 | S14 | W44 | | | 1- | 3 | 1042 | | | | | |
| UCCLE | 28 | 1103 | 1108 | 1106 | S11 | W36 | | | 1- | 3 | 1106 | | | | | |
| CAPETOWN | 28 | 1149 | 1219 | 1155 | S13 | W37 | 6351 | 30 | 2 | | 1155 | 4.30 | 5.40 | | | |
| UCCLE | 28 | 1149 | 1221 | 1155 | S13 | W40 | 6351 | 32 | 1 | 3 | 1155 | 3.50 | 4.20 | | | |
| CAPRI F | 28 | 1155 E | 1200 D | | S11 | W36 | 6351 | 5 D | 2 | 1 | 1158 | 4.00 | 6.00 | | | |
| UCCLE | 28 | 1224 | 1301 | | S12 | W42 | | | 1- | 3 | | | | | | |
| UCCLE | 28 | 1358 | 1343 | 1340 | S12 | W40 | | | 1- | 3 | 1340 | | | | | |
| CLIMAX | 28 | 1807 E | 1850 D | 1810 | S13 | W43 | | | 1- | | | 1.20 | 1.30 | | | |

COMMERCE - STANDARDS - BOULDER

These flare reports are addenda to the February 1962 flares published in CRPL-F 211 March 1962.

| | |
|---|---|
| ATHENES | ATHENS, GREECE |
| BAKOU | PIRCULI, USSR |
| CAPETOWN | ROYAL OBSERVATORY, CAPE OF GOOD HOPE |
| CAPRI F | CAPRI, ITALY (GERMAN) |
| CAPRI S | CAPRI, ITALY (SWEDISH) |
| CRIMÉE | SIMEIZ, USSR |
| HERSTMONCEU | ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX, ENGLAND |
| HONOLULU | HAWAII, USA |
| IKOMASAN | KYOTO, JAPAN |
| KIEV KO | KIEV GAO, USSR |
| KIEV KY | KIEV UNIVERSITY, USSR |
| LOCKHEED | LOS ANGELES, CALIF., USA |
| MCMATH | MCMATH-HULBERT PONTIAC, MICH., USA |
| MOSCOU | MOSCOW-GAISH, USSR |
| NERA | NEDERHORST den BERGH, NETHERLANDS |
| NIZMIR | KRASNAYA PAKHRA, USSR |
| SAC PEAK | SACRAMENTO PEAK, N.MEX. USA |
| SALTSJÖBADEN | STOCKHOLM, SWEDEN |
| SCHAUINS | SCHAUINSLAND, GFR |
| TACHKENT | TASHKENT, USSR |
| WENDEL | WENDELSTEIN, GFR |

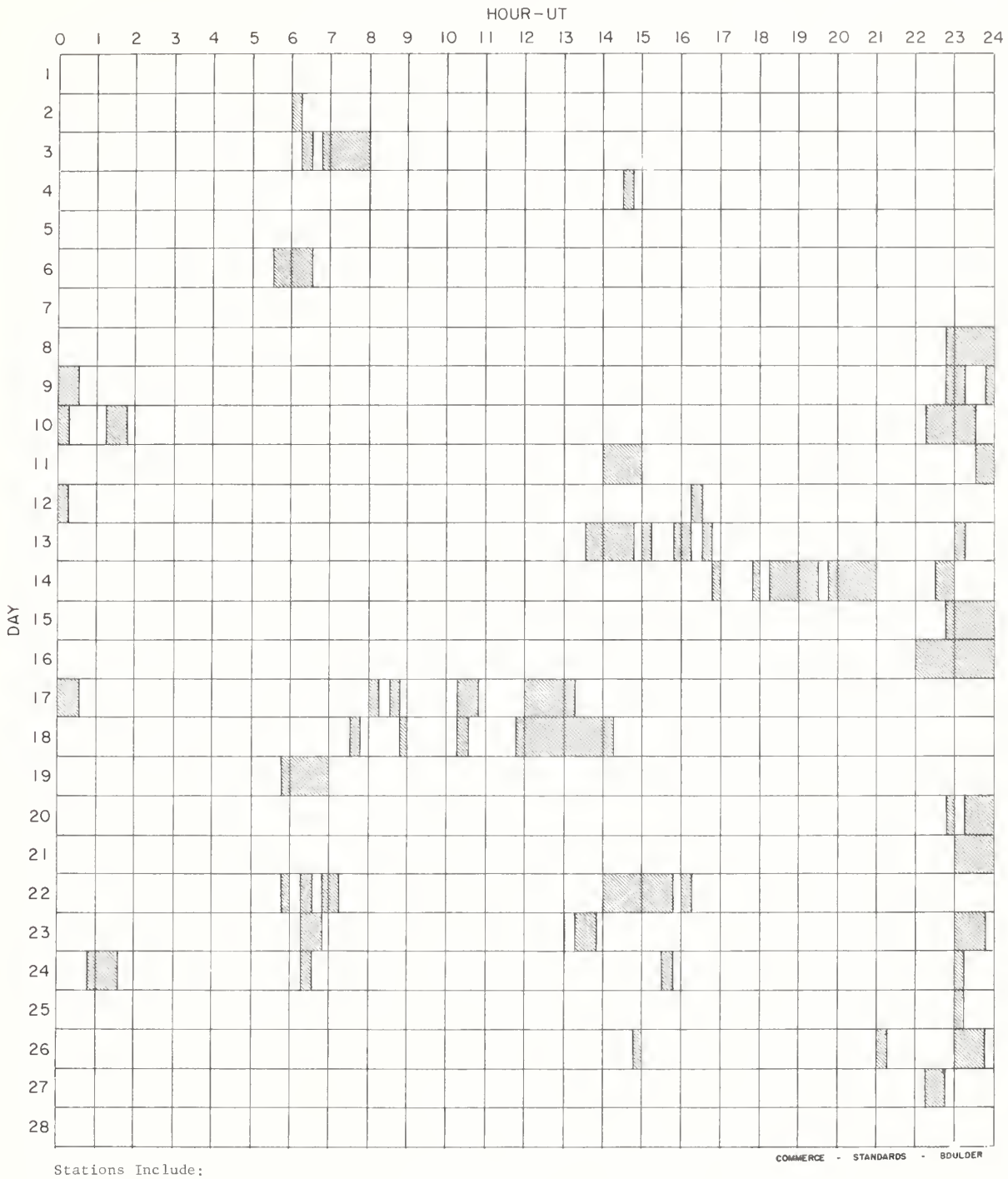
ALL VALUES IN THE MAXIMUM INTENSITY COLUMN FOR SAC PEAK ARE ARBITRARY UNITS (0-40) AND FOR LOCKHEED ARE ARBITRARY UNITS (10-40), NOT PERCENT OF CONTINUOUS SPECTRUM.

SEE DESCRIPTIVE TEXT PUBLISHED NOVEMBER 1961 FOR DEFINITION OF CORRECTED AREA VALUES LISTED FOR CLIMAX, HAWAII, LOCKHEED AND SACRAMENTO PEAK.

E = LESS THAN D = GREATER THAN U = APPROXIMATE □ = NOT REPORTED.

# INTERVALS OF NO FLARE PATROL OBSERVATIONS

## FEBRUARY 1962




Stations Include:

| | | | | | |
|---|---|---|---|---|---|
| Abastumani | Capri (German) | Honolulu | Lockheed | Nizamiah | Uccle |
| Arcetri | Capri (Swedish) | Huancayo | McMath-Hulbert | Ondrejov | Voroshilov |
| Bucharest | Climax | Ikomasan | Meudon | Sacramento Peak | Wendelstein |
| Capetown | Herstmonceux | Kodaikanal | Mitaka | Schauinsland | |

# IONOSPHERIC EFFECTS OF SOLAR FLARES

## SHORT WAVE RADIO FADEOUTS
## SUDDEN COSMIC NOISE ABSORPTION
## SUDDEN ENHANCEMENTS OF ATMOSPHERICS
## SUDDEN PHASE ANOMALIES
## SOLAR NOISE BURSTS AT 18 Mc

## APRIL 1962

| APRIL 1962 | UNIVERSAL TIME START | END | MAX | SWF TYPE | IMP | IMPORTANCE ABS | SCNA | SEA | SPA | BUR | WIOE SPREAD INDEX | STATIONS | KNOWN FLARE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 1715 | 1830 | 1802 | | | | | 1 | | | 1 | A5 | |
| * 01 | 1721 | 1805 | | S | 1 | | | | | | 5 | PR AN BE FM HU MC | 1729U |
| 11 | 1420 | | | | | | 1 | | | | 1 | MC | |
| * 11 | 1420 | 1502 | | G | 1+ | | | | | | 5 | PR BE MC NE | |
| 11 | 1426 | 1515U | 1434 | | | | | 1 | | | 5 | OU A3 A5 A10 NE | |
| 12 | 2134 | 2216 | | | | | | | | 3 | 5 | HA BO | 2149 |
| 12 | 2212 | 2400 | | G | 1+ | | | | | | 3 | AN AO | |
| 12 | 2215 | 2227 | 2218 | | | | | 1 | | | 1 | TY | |
| 13 | 0847 | 0907 | | S | 1+ | | | | | | 3 | NE OA | 0851E |
| 13 | 0850 | 0940 | 0900 | | | | | 2 | | | 5 | TY NE TR | |
| 14 | 1903 | 2030 | 1930 | | | | | | 75 | | 5 | BO BO+ | 1910E |
| 14 | 1917 | 1920 | | | | | | | | 2 | | HA BO | |
| * 14 | 1917 | 2100U | 1924 | | | | | 2 | | | 5 | A5 A1 A3 A9 A10 HA | |
| 14 | 1918 | 2027 | | S | 2+ | | | | | | 5 | BE AO AN FM HU MC PR WS | |
| 14 | 1920 | 2030 | 1926 | | | 30 | 2 | | | | 5 | HA BO MC | |
| 15 | 0524 | 0550 | | G | 1- | | | | | | 1 | OK | 0533E |
| 15 | 0530 | 0606 | 0536 | | | | | 1+ | | | 1 | TY | |
| 15 | 1715 | 1800 | 1720 | | | | | | 12 | | 5 | BO BO+ | 1715U |
| * 15 | 1715 | 1800 | 1721 | | | | | 1+ | | | 5 | A9 A1 A5 A10 | |
| 15 | 1720 | 1755 | | S | 1- | | | | | | 4 | MC PR WS | |
| 16 | 1700 | 1100 | | | | | | | | 2 | 5 | BO HA MA | |
| * 17 | 1445 | 1510 | 1450 | | | | | 1- | | | 3 | A1 A5 | 1444 |
| 18 | 1750 | | | | | | 2 | | | | 1 | MC | 1734 |
| 18 | 1752 | 1940 | | G | 3 | | | | | | 5 | BE BO FM MC PR | |
| 19 | 1934 | 2040 | 1937 | | | | | 1+ | | | 5 | A9 A2 A3 HA | 1935 |
| * 19 | 1935 | 1950 | 1938 | | | 20 | 1 | | | | 5 | HA MC | |
| 19 | 1935 | 2010 | | S | 1+ | | | | | | 5 | MC AO AN BE FM PR | |
| 19 | 1935 | 2040 | 2010 | | | | | | 60 | | 5 | BO BO+ | |
| 20 | 2000 | 2003 | | | | | | | | 2 | 5 | HA BO | 1958 |
| 20 | 2000 | 2030 | | S | 2 | | | | | | 5 | MC AO AN BE BO FM TO WS | |
| * 20 | 2000 | 2035 | 2004 | | | 30 | 2 | | | | 5 | HA AN BO MC | |
| 20 | 2000 | 2050 | 2007 | | | | | | 92 | | 5 | BO+ BO | |
| 20 | 2001 | 2050 | | | | | | 2 | | | 5 | HA A1 A3 A9 A10 BO MC | |
| 21 | 0202 | 0219 | | S | 1+ | | | | | | 5 | TO AO OK | 0203E |
| 21 | 0203 | 0223 | 0210 | | | | | 1 | | | 1 | TY | |
| 21 | 0204 | 0230 | 0206 | | | 20 | 1 | | | | 5 | HA MA | |
| 21 | 1920 | 1926 | | | | | | | | 1 | 5 | HA BO | 1918 |
| 21 | 1920 | 2045 | 1925 | | | | | 1+ | | | 4 | A9 A3 | |
| 21 | 2008 | 2013 | | | | | | | | 1 | 5 | HA BO | 2007 |
| 22 | 1444 | 1547 | 1505 | | | | | 2 | | | 5 | OU A1 A3 A5 A9 A10 NE | 1430 |
| * 22 | 1445 | 1545 | 1500 | | | 20 | 1 | | | | 4 | BO MC | |
| 22 | 1446 | 1700 | | S | 3 | | | | | | 5 | BE BO FM HU MC NE PR WS CW** | |
| 25 | 0211 | 0215 | | | | | | | | 1 | 1 | HA | |
| 25 | 2044 | 2045 | | | | | | | | 1 | 5 | HA BO | |
| 26 | 0122 | 0125 | | | | | | | | 1 | 5 | HA MA | + |
| * 26 | 1212 | 1247 | 1217 | | | | | 1 | | | 5 | OU A1 | 1205E |
| 27 | 1410 | 1520 | 1426 | | | | | | 85 | | 5 | BO BO+ | 1350 |
| 27 | 1410 | 1526 | 1420 | | | | | 2 | | | 5 | OU A1 A2 A3 A5 A9 A10 BO NE TR | |
| * 27 | 1413 | 1433 | | S | 1+ | | | | | | 5 | BE BO FM HU MC NE PR SW CW* CW** CW*** | |
| 27 | 1414 | 1430 | 1417 | | | 30 | 2 | | | | 1 | BO | |
| 27 | 2042 | 2050 | | | | | | | | 1 | 5 | HA BO | |
| 27 | 2300 | 2305 | | | | | | | | 3 | 5 | HA BO | 2300 |
| 28 | 2023 | 2032 | | | | | | | | 1 | 5 | BO HA | 2023 |

COMMERCE - STANDARDS - BOULDER

Footnote:

On page IIIl in CRPL-F 212 Part B, published April 1962 please add
Stations A9 and A10 to the SEA observed February 23, 1962 at 1816 UT.

# SOLAR RADIO EMISSION

## OUTSTANDING OCCURRENCES

### MAY 1962

ARO-OTTAWA

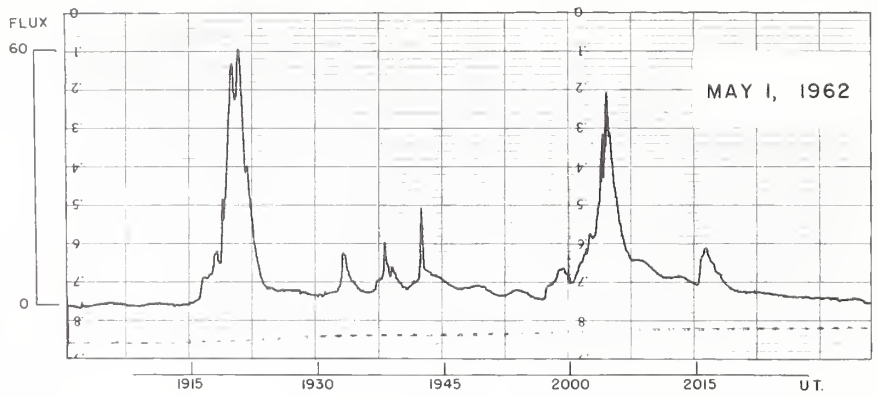
2800 MC

| May 1962 | Type | Start UT | Duration Hrs:Mins | Maximum Time UT Max | Maximum Peak Flux | Maximum Near Flux | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | 3 Simple 3 | 1240 | 2 57 | 1425 | 4 | 2.5 | |
| 1 | Period of Irregular Activity | 1915 | 1 50 | 1920.5 | 60 | 6 | |
| 2 | 2 Simple 2 f | 1927.3 | 3.7 | 1928.4 | 12 | 4 | |
| | 4 Post Increase | | 50 | | 1 | 0.5 | |
| 5 | 3 Simple 3 A | 1845 | 2 30 | 1904 | 3 | 1.5 | |
| | 1 Simple 1 | 1847.3 | 0.9 | 1847.8 | 5 | 4 | |
| 5 | 3 Simple 3 A | 2132 | 45 | 2137 | 2 | 1 | |
| | 6 Complex | 2134 | 3 | 2135.2 | 3.5 | 1.7 | |
| 6 | 1 Simple 1 | 2134 | 3 | 2135.5 | 4 | 2 | |
| 12 | 3 Simple 3 | 1325 | 2 05 | 1337 | 5 | 2 | |
| 13 | 3 Simple 3 A f | 1849 | >4 31 | 2125 | 13 | - | |
| | 1 Simple 1 | 2121 | 3 | 2123.3 | 15 | 6 | |
| | 6 Complex f | 2129.7 | 6.6 | 2130.8 | 8 | 4 | |
| 14 | 3 Simple 3 A | 1138 | 3 22 | 1155 | 9 | 4.5 | |
| | 6 Complex f | 1144 | 3 | 1144.5 | 5 | 2.5 | |
| | 6 Complex f | 1147 | 7.5 | 1151 | 9 | 4.5 | |
| 18 | 3 Simple 3 A f | 1413 | 1 35 | 1430 | 3 | 2 | |
| | 2 Simple 2 f | 1531.7 | 5 | 1532.4 | 56 | 11 | |
| 24 | 3 Simple 3 | 1552 | 1 23 | 1626 | 3 | 1.5 | |
| 25 | 3 Simple 3 | 1706 | >6 14 | 1839 | 8 | - | |
| 27 | 2 Simple 2 | 1517 | 2 | 1517.2 | 11 | 4.5 | |
| 27 | 3 Simple 3 | 1918 | >4 02 | 2150 | 5 | - | |
| 28 | 3 Simple 3 f | 1634 | 22 | 1638 | 3 | 0.7 | |
| 28 | 3 Simple 3 | 2129 | >1 51 | 2210 | 4 | - | |
| 29 | 1 Simple 1 | 1800 | 3 | 1802 | 5 | 4 | |
| | 4 Post Increase | | 22 | | 2 | 1 | |
| 31 | 3 Simple 3 A f | 1117 | 3 21 | 1258 | 14 | 7 | |
| | 6 Complex f | 1150 | 46 | 1203.5 | 30 | 17 | |

COMMERCE - STANDARDS - BOULDER

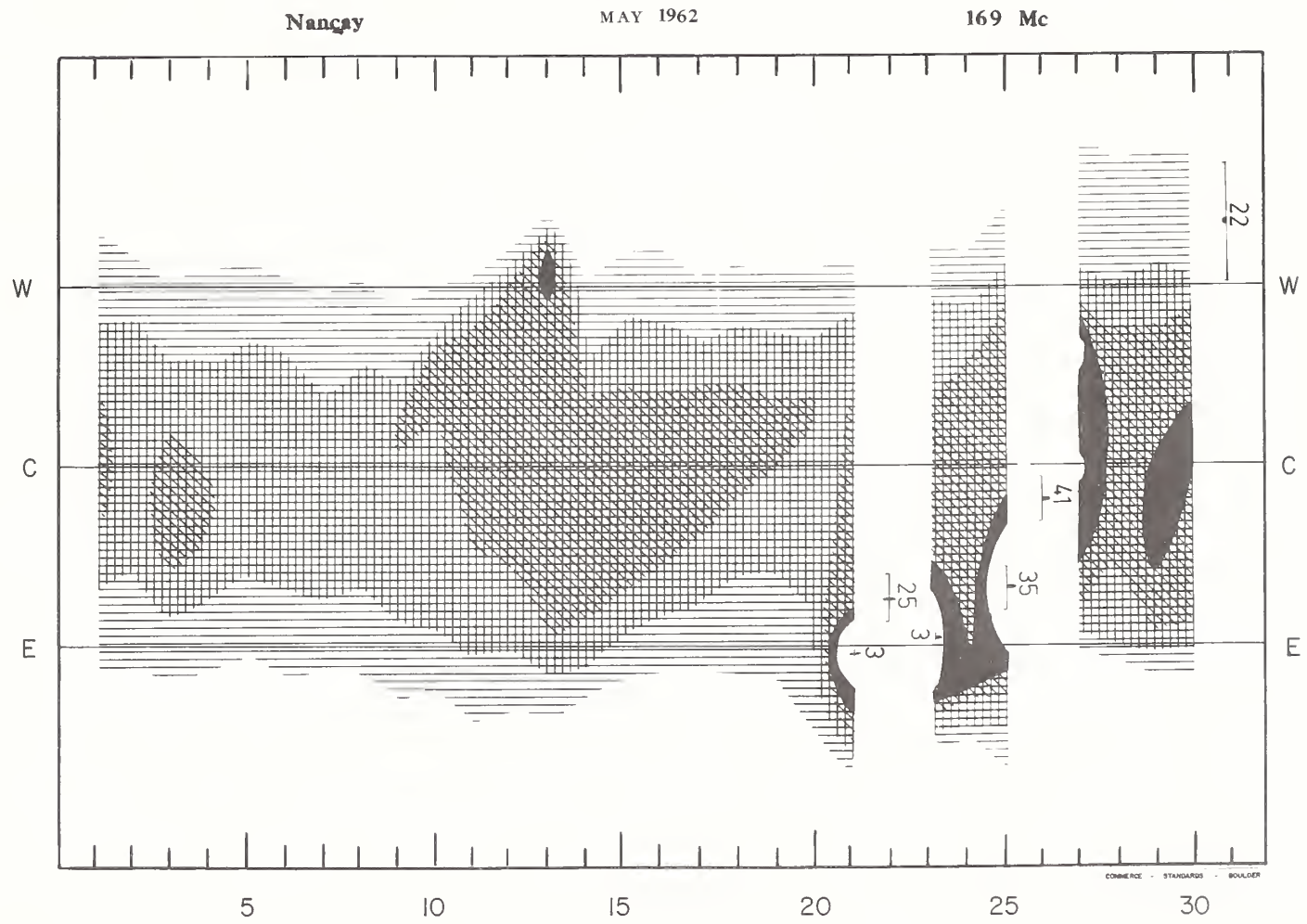
# SELECTED 2800 MC/S SOLAR NOISE BURST
## ARO-OTTAWA, CANADA

MAY 1962




COMMERCE - STANDARDS - BOULDER

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS



# SOLAR RADIO EMISSION

MAY 1962

BOULDER **108 Mc.**

| May 1962 | Type | Start UT | Time of Maximum UT | Duration Minutes | Intensity |
|---|---|---|---|---|---|
| 1 | 9 | 1918.5 | 1922.5 | 18 | 3 |
| 3 | 3 | 1118.1 | 1119.5 | 2.0 | 3 |
| 5 | 3 | 1343.9 | 1344.5 | 1.4 | 3 |
| 6 | 3 | 1435.1 | 1437.1 | 2.3 | 3 |
| 11 | 3 | 1620.6 | 1621.8 | 1.7 | 2 |
| 13 | 7 | 2140 | 2202 | 50 | 1 |
| 18 | 8 | 1531.5 | 1535 | 10.0 | 3 |
| 24 | 7 | 1824 | | 451 D | 2 |
| 25 | 6 | 1142 E | | 854 D | 2 |
| 26 | 6 | 1141 E | | 458 D | 2 |
| 26 | 8 | 1554.0 | 1556.0 | 4.8 | 3 |
| 27 | 3 | 1516.0 | 1516.5 | 3.5 | 3 |
| 28 | 3 | 1641.8 | 1643.0 | 3.5 | 3 |
| 31 | 6 | 1139 E | 1151 | 101 D | 1 |

COMMERCE - STANDARDS - BOULDER

Errata:

On page 1Vc, CRPL-F 213 Part B, May 1962 all bursts reported for April 21, 1962 should be deleted. Upon re-examination of the records, it has been decided that those events are associated with local thunderstorms and are not solar radio bursts.

# NOMINAL TIMES OF OBSERVATION

MAY 1962

BOULDER **108 Mc.**

| May 1962 | U.T. | | | May 1962 | U.T. | | |
|---|---|---|---|---|---|---|---|
| 1 | 1205-0135 | | | 19 | 1147-2010; 2315-0151 | | |
| 2 | 1204-0136 | | | | | | |
| 3 | 1203-0137 | | | 20 | 1146-0152 | | |
| 4 | 1202-0138 | | | 21 | 1145-0153 | I | 1710-2130 |
| 5 | 1201-0139 | I | 2240-0050 | 22 | 1144-1740 | | |
| 6 | 1159-0140 | | | 23 | 1143-0154 | | |
| 7 | 1158-0141 | I | 1105-1345 | 24 | 1143-0155 | | |
| 8 | 1157-0142 | I | 2134-2143 | 25 | 1142-0156 | I | 1900-0156 |
| 9 | 1156-0143 | | | 26 | 1141-0157 | I | 2034-0157 |
| 10 | 1155-1140; 2140-0144 | | | 27 | 1141-0158 | I | 1141-1310; 1608-0158 |
| 11 | 1154-0145 | | | 28 | 1140-0159 | I | 1815-0030 |
| 12 | 1153-0146 | | | 29 | 1140-0159 | | |
| 13 | 1152-0146 | I | 1453-1530; 1758-1810; 1922-1940 | 30 | 1139-0159 | I | 1633-1640; 1935-1947 |
| | | | | 31 | 1139-0159 | I | 1725-0159 |
| 14 | 1151-0147 | I | 1930-2100 | | | | |
| 15 | 1150-0148 | | | | | | |
| 16 | 1149-0149 | I | 1149-2200 | | | | |
| 17 | 1148-0149 | I | 0000-0149 | | | | |
| 18 | 1147-0150 | | | | | | |

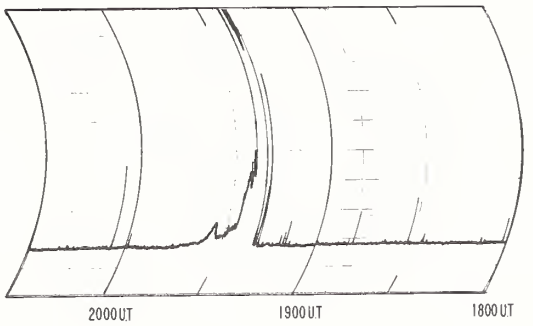
COMMERCE - STANDARDS - BOULDER

# SOLAR NOISE BURSTS

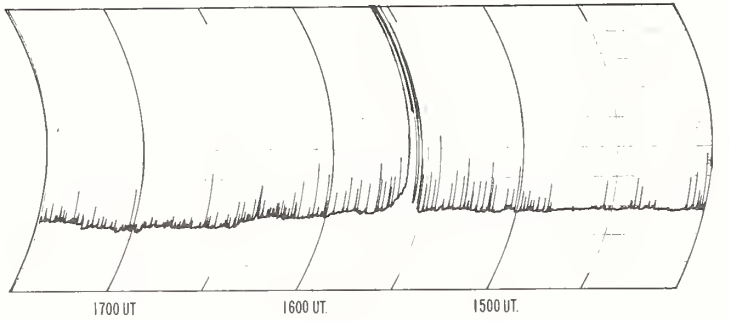
BOULDER

MAY 1962

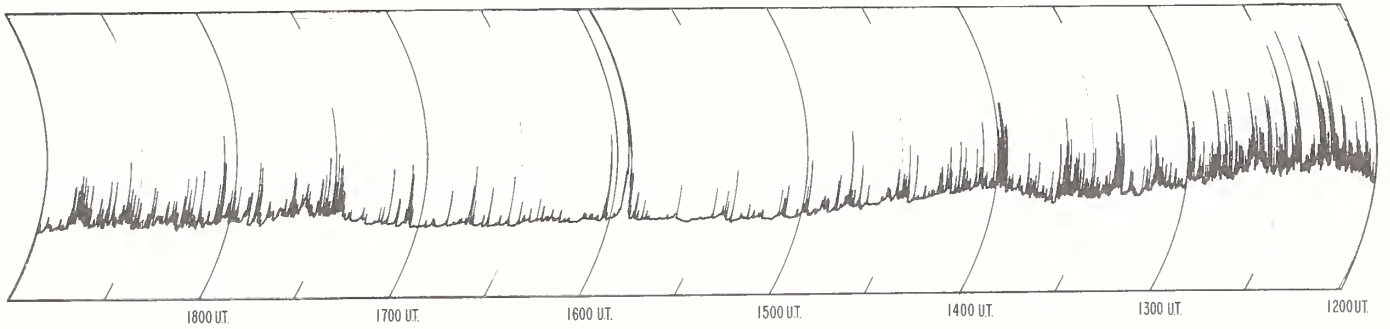
108 Mc




MAY 1, 1962




MAY 18, 1962




MAY 26, 1962

# SOLAR RADIO EMISSION
## SPECTRUM OBSERVATIONS

MAY 1962

HAO BOULDER 7.6-41 Mc

| Date 1962 | Bursts Type | Time (U.T.) | Intensity | Frequency Range (mc) | Date 1962 | Bursts Type | Time (U.T.) | Intensity | Frequency Range (mc) |
|---|---|---|---|---|---|---|---|---|---|
| 1 May | III | 1425-1425.15 | 2 | 24-41 | 14 May | III | 2325.45-2326.15 | 1- | 22-36 |
| | III | 1639.30-1639.45 | 1- | 21-41 | 15* | III | 2330.30-2330.45 | 1- | 20-41 |
| | III | 1918.30-1921.30 | 3 | 7.6-41 | | III | 2352.15-2352.45 | 1- | 22-41 |
| | II | 1921-1940 | 3 | 12-41 | | III | 2353-2353.15 | 1- | 22-41 |
| | IV | 1925-2130 | 1 | 23-41 | | III | 2353.30-2353.45 | 1- | 22-41 |
| 2 | III | 1228-1228.15 | 1 | 13-41 | 16 | III | 1751-1751.30 | 1 | 24-41 |
| | III | 1514-1514.15 | 1 | 8-41 | | III | 1833.45-1834 | 1 | 19-41 |
| | III | 1527-1527.15 | 1- | 19-41 | 17 | III | 2047.30-2047.45 | 1- | 23-41 |
| | III | 1529.45-1530 | 1 | 22-41 | | III | 2048-2048.15 | 1- | 23-41 |
| | III | 1530.15-1530.45 | 1 | 22-41 | | III | 2138.30-2138.45 | 1- | 21-41 |
| | III | 1531-1531.15 | 1- | 22-41 | 18 | III | 2034.15-2035 | 1 | 23-41 |
| | III | 1534.15-1534.30 | 1 | 20-41 | | III | 2339.15-2340 | 1+ | 21-41 |
| | III | 1609-1609.30 | 1 | 21-41 | 19 | III | 1502-1502.45 | 1 | 21-33 |
| | III | 1725.45-1726 | 1 | 20-41 | | III | 1539.15-1540 | 1 | 20-34 |
| | III | 1727.15-1729 | 1+ | 7.6-41 | | III | d1832.30-1833.15 | 1- | 21-40 |
| | III | 1742.15-1742.30 | 1- | 30-41 | | III | 1958-1958.15 | 1- | 29-41 |
| | III | 1809-1809.45 | 1 | 24-41 | | III | 2017-2022.30 | 1 | 21-41 |
| | III | 1923.30-1923.15 | 1- | 7.6-41 | | III | 2327.45-2328.30 | 1 | 20-41 |
| | III | 1948.15-1948.30 | 1 | 26-41 | 20 | III | 1839-1839.45 | 1 | 20-41 |
| | III | 1950.15-1951 | 1+ | 7.6-41 | | III | 2021.30-2022.45 | 2- | 9-41 |
| | III | 2133.30-2134 | 1 | 12-41 | 21 | III | 2133.15-2133.30 | 1 | 32-41 |
| | III | 2134.30-2134.45 | 1- | 23-41 | | III | 2137-2137.15 | 1- | 26-41 |
| | III | 2136.15-2136.30 | 1 | 12-41 | 22 | III | 1523-1523.30 | 1- | 24-39 |
| | III | 2140.30-2141.15 | 1+ | 12-41 | | III | 2045.30-2046 | 1 | 35-41 |
| | III | 2153.15-2154 | 1+ | 9-41 | | III | 2337-2337.30 | 1 | 22-41 |
| | III | 2228.30-2229 | 1 | 16-41 | | III | 2337.45-2338 | 1- | 23-36 |
| | III | 2229.30-2229.45 | 1- | 21-41 | | III | 2343.15-2343.30 | 1- | 23-41 |
| | III | 2230.45-2231.15 | 1- | 21-41 | 23 | III | 1408.15-1408.30 | 1- | 24-41 |
| | III | 2236-2236.15 | 1- | 22-41 | | III | 1614-1614.15 | 1- | 24-41 |
| | III | 2253-2253.30 | 1- | 22-34 | | III | 1628-1628.30 | 1 | 20-41 |
| | III | 2308.45-2309.45 | 1+ | 14-41 | | III | 1632.15-1632.30 | 1- | 21-41 |
| | III | 2311.15-2311.30 | 1- | 21-41 | | III | 1635.45-1636.15 | 1 | 23-41 |
| | III | 2312.30-2313 | 1- | 21-41 | | III | 1651.15-1651.45 | 1 | 26-39 |
| | III | 2316.30-2317 | 1+ | 14-41 | | III | 1845.15-1847.30 | 1 | 19-41 |
| | III | 2318-2318.30 | 1 | 14-41 | | III | 2235.30-2236.45 | 1+ | 20-41 |
| | III | 2319.45-2320 | 1- | 22-41 | | III | 2241.30-2243 | 2- | 19-41 |
| | III | 2347.15-2349.15 | 2 | 10-41 | | III | 2245.45-2246 | 1- | 27-41 |
| | III | 2349.45-2351 | 2 | 10-41 | | III | 2429.30-2430 | 1 | 23-41 |
| | III | 2437.15-2437.45 | 1+ | 13-41 | | III | 2433.30-2434.15 | 1+ | 21-41 |
| | III | 2450.30-2450.45 | 1 | 24-41 | | III | 2444.15-2444.30 | 1 | 23-41 |
| | III | 2451.15-2451.30 | 1 | 16-41 | | III | 2445.45-2446 | 1 | 24-41 |
| | III | 2459.30-2459.45 | 1- | 21-41 | 24 | III | 1842.15-1842.30 | 1- | 22-34 |
| | III | 2501-2501.15 | 1- | 26-41 | | III | 1850.45-1851.30 | 1 | 23-41 |
| 3 | III | 1955.30-1955.45 | 1- | 21-41 | | continuum | 1900-2045 | 1- | 26-38 |
| | III | 1956-1956.15 | 1 | 7.6-41 | | III | 1913-1913.45 | 1 | 23-41 |
| | III | 2414.30-2415 | 1 | 22-41 | | III | 1918.30-1919 | 1- | 26-41 |
| 4 | III | 1619.15-1620.45 | 1 | 20-41 | | III | 2052.30-2053.15 | 1 | 22-41 |
| | III | 2212.15-2212.45 | 1- | 12-41 | | III | 2057-2057.30 | 1- | 22-41 |
| | III | 2334.45-2335 | 1- | 22-41 | | III | 2057.45-2058.30 | 1- | 23-41 |
| | III | 2336-2336.15 | 1- | 22-41 | | III | 2125-2125.15 | 1 | 23-41 |
| | III | 2338.30-2339.45 | 1- | 22-41 | | III | 2202.45-2203.15 | 1- | 24-41 |
| | III | 2342-2342.30 | 1- | 22-41 | | III | 2223.15-2223.45 | 1- | 23-41 |
| 5 | III | 1554.45-1555.45 | 1 | 12-41 | | III | 2437-2437.15 | 1- | 26-41 |
| | III | 1557.45-1558 | 1- | 24-41 | | III | 2441-2441.30 | 1- | 25-41 |
| | III | 1559-1559.15 | 1- | 24-41 | 25 | continuum | 0140-1800 | 1- | 20-41 |
| 11# | III | 2303.15-2303.30 | 1- | 22-41 | | III | 1542.30-1543.15 | 1+ | 24-41 |
| | III | 2304.45-2305.15 | 1 | 22-41 | | III | 1616.45-1617.30 | 1+ | 26-41 |
| 12 | III | 1557.45-1558.30 | 1- | 27-41 | | III | 1619.15-1619.45 | 1+ | 24-41 |
| | III | 1727-1727.30 | 1 | 26-41 | | III | 1716-1716.45 | 2- | 18-41 |
| | III | 1915.30-1915.45 | 1- | 28-41 | | continuum | 1800-1925 | 1 | 8-41 |
| | III | 1953.30-1954 | I- | 33-41 | | continuum | 1925-2400 | 1- | 18-41 |
| | III | 2301.45-2302.15 | 1+ | 24-41 | | continuum | 2400-a2500 | 1- | 20-41 |
| 14 | III | 2322.15-2322.30 | 1- | 34-41 | | III | 2408.15-2408.45 | 1 | 21-41 |
| | III | 2322.30-2322.45 | 1- | 33-41 | | III | 2442-2442.30 | 1 | 22-41 |
| | III | 2323-2323.30 | 1 | 23-41 | | III | 2450-2450.30 | 1 | 22-41 |

COMMERCE - STANDARDS - BOULDER

# = Observations began 2220 UT. * = Observations began 2045 UT.

d = harmonic structure

# SOLAR RADIO EMISSION
## SPECTRUM OBSERVATIONS

MAY 1962

HAO BOULDER 7.6 - 41 Mc

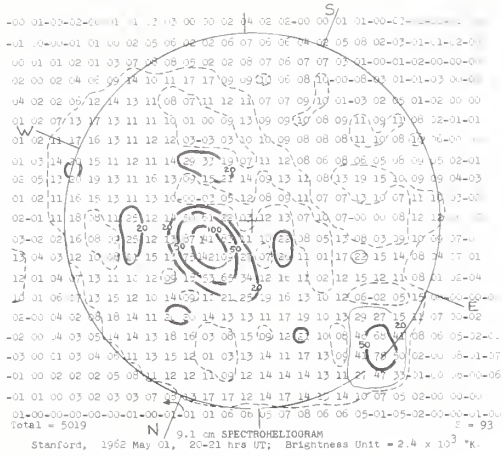
| Date 1962 | Bursts | | | | Date 1962 | Bursts | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Type | Time (U.T.) | Intensity | Frequency Range (mc) | | Type | Time (U.T.) | Intensity | Frequency Range (mc) |
| 25 May | III | 2h59-2h59.30 | 1+ | 22-41 | 29 May | III | 2057.45-2058 | 1 | 20-41 |
| | III | 2500-2500.15 | 1+ | 22-41 | | III | 2132-2132.30 | 1- | 20-41 |
| | III | 2515.15-2516 | 1- | 19-41 | | III | 2238.30-2238.45 | 1- | 21-41 |
| | III | 2526.45-2527 | 1- | 22-39 | | III | 2253.15-2253.30 | 1- | 20-35 |
| 26 | continuum | b1355-1800 | 1- | 21-41 | | III | 2303-2303.30 | 1- | 21-41 |
| | III | 15h4.30-15h5 | 1+ | 16-41 | | III | 2321.15-2321.30 | 1- | 21-41 |
| | III | 1716.45-1717.15 | 1+ | 22-41 | | III | 2323.45-2324 | 1- | 22-41 |
| | III | 1734.30-1735 | 1+ | 24-41 | | III | 2324-2324.15 | 1- | 22-41 |
| | III | 1849-1849.45 | 1- | 22-41 | | III | 2327.30-2327.45 | 1- | 22-41 |
| | III | 1850.30-1851.30 | 1- | 24-41 | | III | 2327.45-2328 | 1- | 22-41 |
| | III | 1855-1855.15 | 1 | 23-41 | | III | 2333.30-2333.45 | 1- | 22-41 |
| | III | 1857.15-1858 | 1+ | 22-41 | | III | 2352.15-2353.45 | 1 | 16-41 |
| | III | 1900.45-1901.15 | 1+ | 23-41 | 30 | III | 1351.45-1352.15 | 1 | 21-41 |
| | III | 1916-1916.45 | 1- | 23-41 | | III | 1359.15-1400 | 1- | 16-41 |
| | III | 1928.15-1928.30 | 1 | 21-41 | | III | 1h12-1h12.15 | 1- | 24-36 |
| | III | 1932-1932.15 | 1- | 25-41 | | III | 1633.45-1634.15 | 1+ | 27-41 |
| | continuum | 2020-2h00 | 1- | 24-41 | | III | 1635.45-1639.15 | 2 | 7.6-41 |
| | III | 2330-2330.30 | 2- | 22-41 | | continuum | 1701-1800 | 1- | 22-41 |
| | III | 23h7.30-23h8 | 1+ | 23-41 | | continuum | 1805-1810 | 1+ | 21-41 |
| | continuum | 2h00-2h30 | 1- | 25-41 | | III | 1808.30-1810 | 1+ | 21-41 |
| | III | 2h46.45-2h47 | 1- | 22-41 | | III | 1828-1828.30 | 1 | 21-41 |
| | III | 2h51-2h51.30 | 1- | 24-41 | | III | 1833-1833.15 | 1- | 21-41 |
| | III | 2h52.15-2h53.15 | 1- | 25-42 | | III | 18h0-18h1 | 1 | 21-41 |
| | III | 252h.15-252h.45 | 1- | 24-41 | | III | 1937.30-1939 | 2 | 7.6-41 |
| | III | 2527.30-2528.15 | 1+ | 10-41 | | III | 19h0.30-19h2.30 | 2 | 7.6-41 |
| 27 | III | 1h01.45-1h02.15 | 1+ | 16-41 | | III | 1945-1946.30 | 2 | 7.6-41 |
| | continuum | 1h10-1h20 | 1- | 20-41 | | III | 20h8-20h8.15 | 1- | 21-41 |
| | III | 1h10-1h10.45 | 1- | 22-41 | | continuum | 2056-2205 | 1- | 25-41 |
| | III | 1h11.15-1h11.30 | 1- | 19-41 | | III | 2057.30-2057.45 | 1- | 25-42 |
| | III | 1h1h.15-1h1h.45 | 1+ | 18-41 | | III | 2212.30-2212.45 | 2 | 22-41 |
| | III | 1h16-1h17.15 | 1+ | 15-41 | | continuum | 2303.30-2354 | 1- | 21-41 |
| | III | 1h39.30-1h40 | 1 | 21-41 | | III | 2353.45-2354.30 | 2 | 23-41 |
| | III | 1h42.45-1h43.15 | 1- | 23-41 | | III | 2h32.30-2h32.45 | 1- | 22-41 |
| | III | 1h52-1h52.30 | 1+ | 20-41 | | III | 2h40-2h40.45 | 1+ | 16-41 |
| | III | 1516.45-1520 | 2 | 7.6-41 | | III | 2h48-2h48.15 | 1- | 21-41 |
| | IV | 1530-1725 | 1- | 22-41 | | III | 2511.30-2511.45 | 1- | 25-41 |
| | III | 1539.15-1539.45 | 1 | 23-41 | 31 | III | 1h03-1h03.30 | 1 | 20-41 |
| | III | 15h7.15-15h7.45 | 1 | 25-41 | | III | 1h04.45-1h05.15 | 1 | 21-41 |
| | III | 1626.15-1627.45 | 1 | 7.6-41 | | III | 1h05.45-1h06.15 | 1 | 21-41 |
| | III | 23h0.15-23h0.45 | 1 | 22-36 | | III | 1518.15-1518.45 | 1- | 20-41 |
| 28 | III | 1h15-1h15.15 | 1 | 19-31 | | III | 1539.15-1539.45 | 1 | 21-41 |
| | III | 1h16-1h16.45 | 1- | 19-31 | | III | 1617-1617.30 | 1- | 23-41 |
| | III | 1h24.30-1h25.30 | 1- | 20-41 | | III | 1708.45-1710 | 2- | 18-41 |
| | III | 1h39.15-1h39.45 | 1+ | 12-41 | | III | 1710.45-1711.45 | 1+ | 18-41 |
| | III | 1h43.15-1h43.45 | 1 | 16-41 | | III | 1712-1713.15 | 1+ | 19-41 |
| | III | 1h44-1h44.15 | 1+ | 16-41 | | III | 1716.45-1718.45 | 2- | 18-41 |
| | III | 1h44.30-1h45 | 1+ | 16-41 | | III | 1724-1724.15 | 1+ | 18-41 |
| | III | 1527-1527.30 | 1 | 22-35 | | III | 1726-1726.30 | 1 | 21-41 |
| | III | 1549.30-1550 | 1- | 14-35 | | III | 1807.15-1808.15 | 2- | 15-41 |
| | III | 1620.30-1621 | 1 | 23-41 | | III | 1838-1838.45 | 1 | 19-36 |
| | III | 1703-1703.45 | 1+ | 8-39 | | III | 1956.30-1956.45 | 1- | 21-38 |
| | III | 1730-1731 | 1 | 8.5-37 | | III | 1958.30-1959.15 | 2- | 8.5-41 |
| | III | 1735.45-1736.15 | 1- | 8.5-33 | | III | 2019.15-2019.30 | 1 | 19-32 |
| | III | 1736.15-1737.30 | 1 | 11-41 | | III | 2047.45-2048.30 | 1 | 18-41 |
| | III | 1737.45-1738.30 | 1+ | 11-41 | | III | 2051.45-2052.30 | 1+ | 10-41 |
| | III | 17h3.15-17h4.45 | 2 | 7.6-41 | | III | 2054.45-2056 | 1 | 18-34 |
| | III | 1802.45-1803.30 | 1 | 20-31 | | III | 2058.45-2100 | 1- | 21-34 |
| | III | 1814.30-1815.45 | 2 | 7.6-41 | | continuum | 2110-2125 | 1- | 22-41 |
| | III | 1851.30-1853.30 | 2- | 7.6-41 | | III | 2115.45-2116.15 | 1 | 26-39 |
| | III | 1929-1930 | 1 | 7.6-36 | | III | 2117.30-2118 | 1 | 13-41 |
| | III | 19h1-19h2.15 | 2- | 7.6-41 | | III | 2118.15-2118.45 | 1 | 13-41 |
| | III | 2017-2018 | 1 | 7.6-36 | | III | 2119-2120 | 1- | 18-41 |
| | III | 20h8.30-20h9.30 | 1+ | 8.5-41 | | III | 2131.30-2132.30 | 2- | 10-41 |
| | III | 210h.30-210h.45 | 1 | 20-38 | | III | 2132.30-2133 | 1+ | 12-41 |
| | III | 2109.15-2110.45 | 1- | 15-41 | | III | 2216-2216.30 | 1 | 21-34 |
| | III | 2131-2131.30 | 1 | 26-38 | | III | 22h3.30-22h4 | 1- | 22-41 |
| | III | 2222.30-2223 | 1 | 21-41 | | III | 2258.30-2258.45 | 1- | 22-41 |
| | III | 2223.30-2223.45 | 1 | 21-41 | | III | 2306.45-2307 | 1- | 19-38 |
| | III | 23h8.45-23h9.15 | 1- | 21-41 | | III | 2h15-2h15.30 | 1+ | 25-41 |
| 29 | III | 1513-1513.30 | 1 | 22-41 | | III | 2h52.30-2h53.15 | 1 | 15-41 |
| | III | 151h-151h.15 | 1- | 22-41 | | III | 2500-2500.30 | 1- | 20-41 |
| | III | 1551-1551.45 | 1+ | 20-41 | | III | 2506.45-2509 | 1 | 22-41 |
| | III | 20h8.15-20h8.45 | 1 | 16-41 | | III | 2508.30-251h | 1 | 17-41 |

# SOLAR RADIO EMISSION SPECTROHELIOGRAMS

MAY 1962

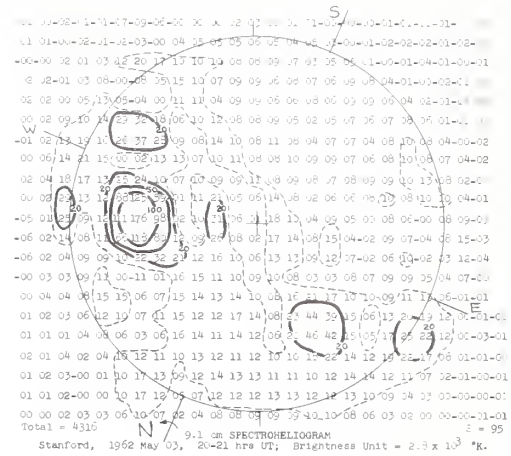
## STANFORD

9.1 cm

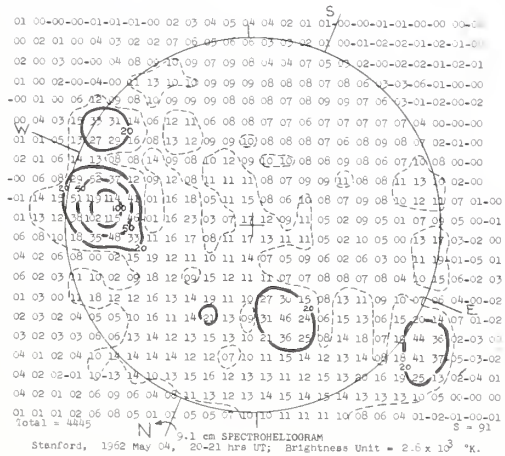



9.1 cm SPECTROHELIOGRAM
Stanford, 1962 May 01, 20-21 hrs UT; Brightness Unit = 2.4 x $10^3$ °K.


MAY 2, 1962

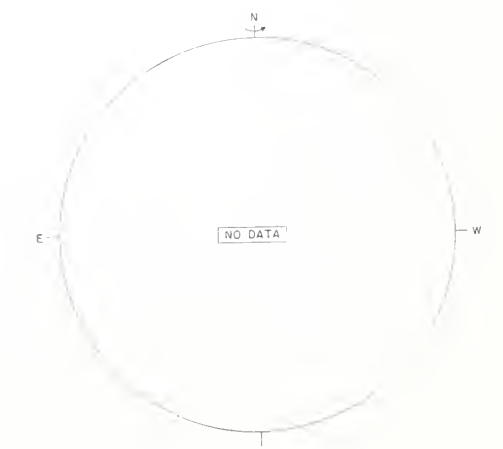



9.1 cm SPECTROHELIOGRAM
Stanford, 1962 May 03, 20-21 hrs UT; Brightness Unit = 2.8 x $10^3$ °K.




9.1 cm SPECTROHELIOGRAM
Stanford, 1962 May 04, 20-21 hrs UT; Brightness Unit = 2.6 x $10^3$ °K.


MAY 5, 1962



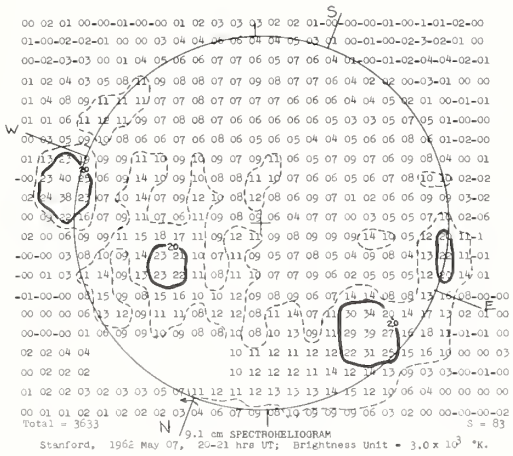

MAY 6, 1962

# SOLAR RADIO EMISSION SPECTROHELIOGRAMS

MAY 1962

STANFORD

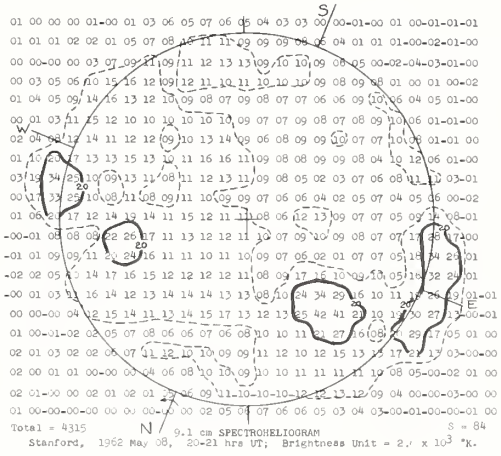
9.1 cm



Total = 3633 S = 83

9.1 cm SPECTROHELIOGRAM

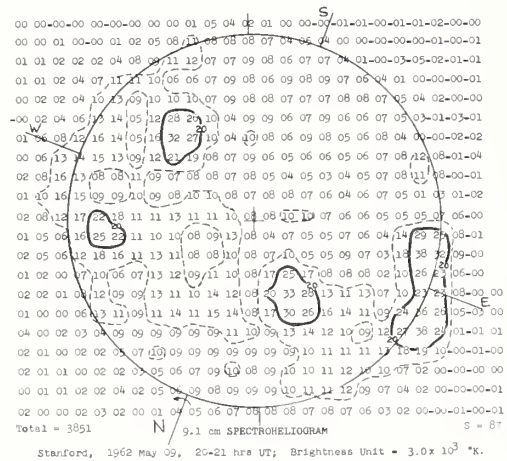
Stanford, 1962 May 07, 20-21 hrs UT; Brightness Unit = 3.0 x $10^3$ °K.



Total = 4315 S = 84

9.1 cm SPECTROHELIOGRAM

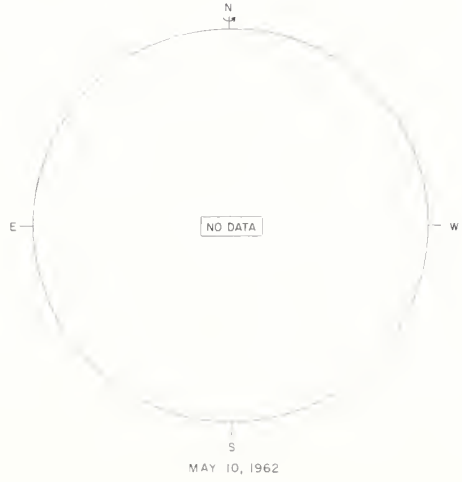
Stanford, 1962 May 08, 20-21 hrs UT; Brightness Unit = 2.7 x $10^3$ °K.



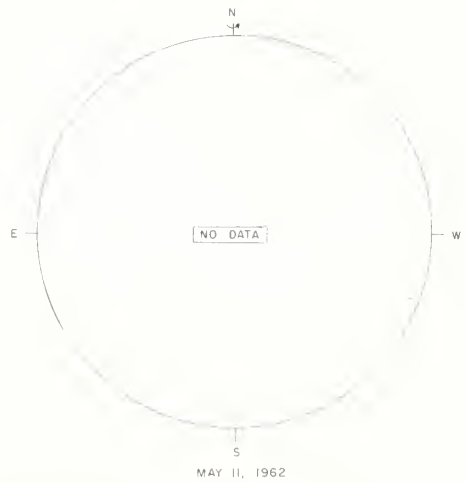
Total = 3851 S = 87

9.1 cm SPECTROHELIOGRAM

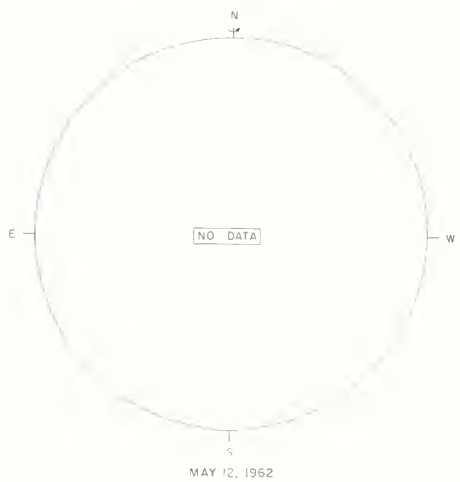
Stanford, 1962 May 09, 20-21 hrs UT; Brightness Unit = 3.0 x $10^3$ °K.




MAY 10, 1962




MAY 11, 1962



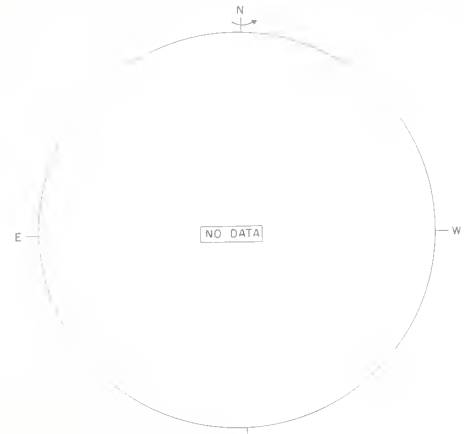

MAY 12, 1962

# SOLAR RADIO EMISSION SPECTROHELIOGRAMS

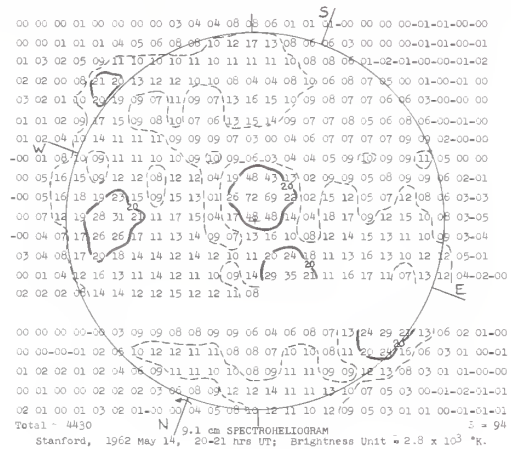
MAY 1962

## STANFORD

9.1 cm



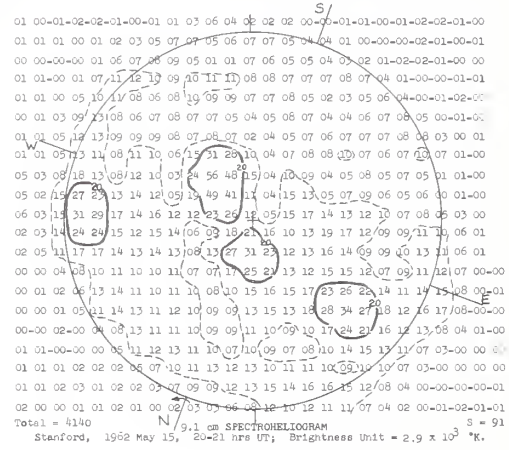

MAY 13, 1962




Total = 4430 S = 94

9.1 cm SPECTROHELIOGRAM

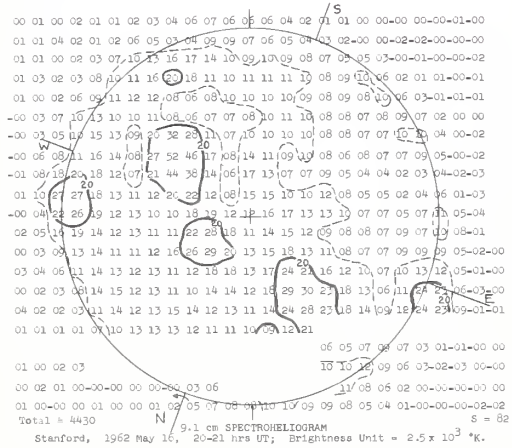
Stanford, 1962 May 14, 20-21 hrs UT; Brightness Unit = 2.8 x $10^3$ °K.




Total = 4140 S = 91

9.1 cm SPECTROHELIOGRAM

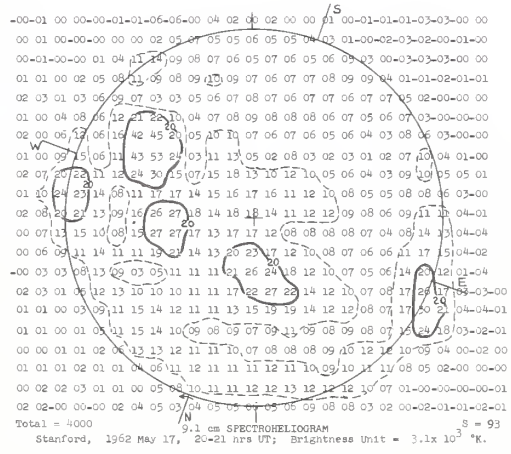
Stanford, 1962 May 15, 20-21 hrs UT; Brightness Unit = 2.9 x $10^3$ °K.




Total = 4430 S = 82

9.1 cm SPECTROHELIOGRAM

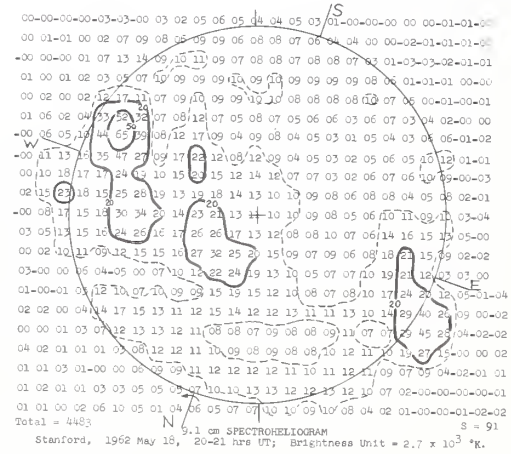
Stanford, 1962 May 16, 20-21 hrs UT; Brightness Unit = 2.5 x $10^3$ °K.




Total = 4000 S = 93

9.1 cm SPECTROHELIOGRAM

Stanford, 1962 May 17, 20-21 hrs UT; Brightness Unit = 3.1 x $10^3$ °K.




Total = 4483 S = 91

9.1 cm SPECTROHELIOGRAM

Stanford, 1962 May 18, 20-21 hrs UT; Brightness Unit = 2.7 x $10^3$ °K.

# SOLAR RADIO EMISSION SPECTROHELIOGRAMS

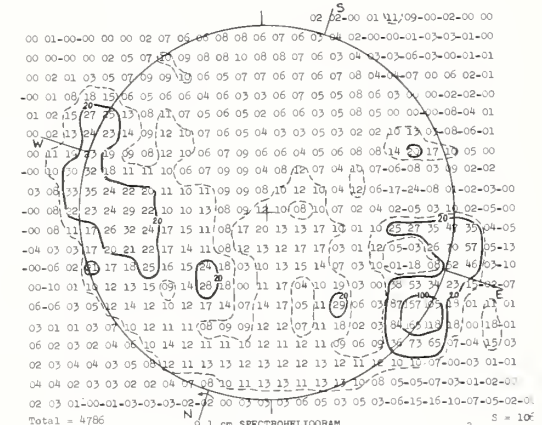
MAY 1962

STANFORD

9.1 cm


MAY 19, 1962

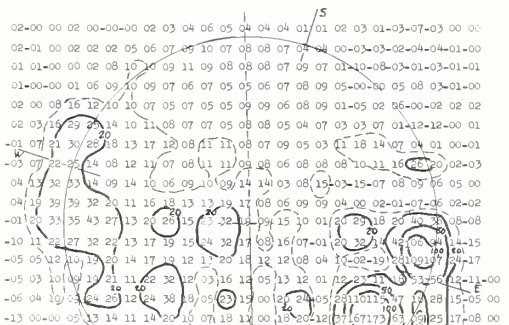

MAY 20, 1962



Total = 4786

9.1 cm SPECTROHELIOGRAM

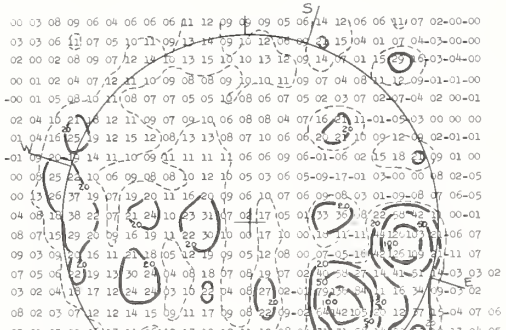
Stanford, 1962 May 21, 20-21 hrs UT; Brightness Unit = 3.0 x $10^3$ °K.



Total = 5797

9.1 cm SPECTROHELIOGRAM

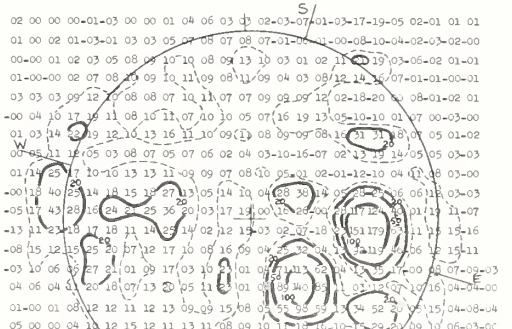
Stanford, 1962 May 22, 20-21 hrs UT; Brightness Unit = 2.5 x $10^3$ °K.



Total = 5465

9.1 cm SPECTROHELIOGRAM

Stanford, 1962 May 23, 20-21 hrs UT; Brightness Unit = 2.7 x $10^3$ °K.



Total = 5260

9.1 cm SPECTROHELIOGRAM

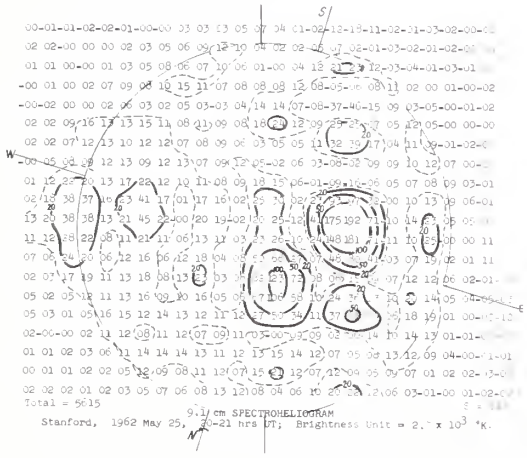
Stanford, 1962 May 24, 20-21 hrs UT; Brightness Unit = 2.8 x $10^3$ °K.

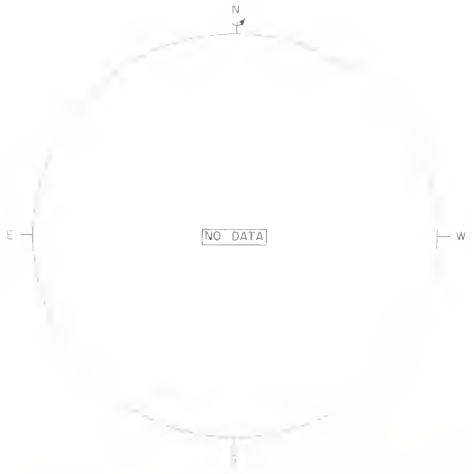
# SOLAR RADIO EMISSION SPECTROHELIOGRAMS

MAY 1962

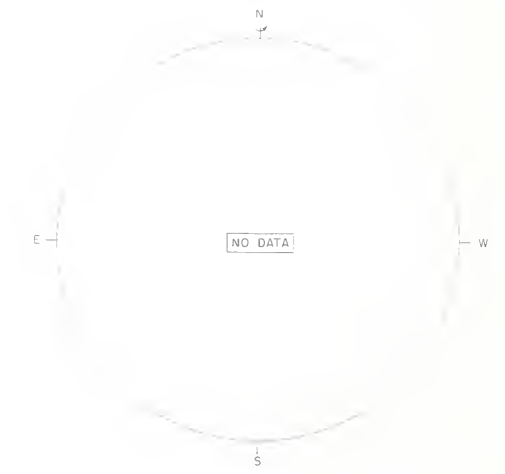
STANFORD

9.1 cm

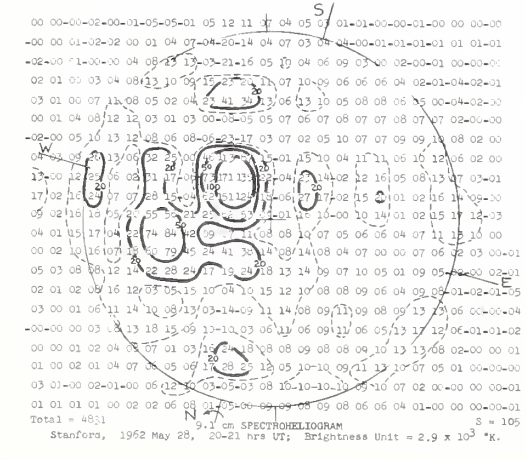


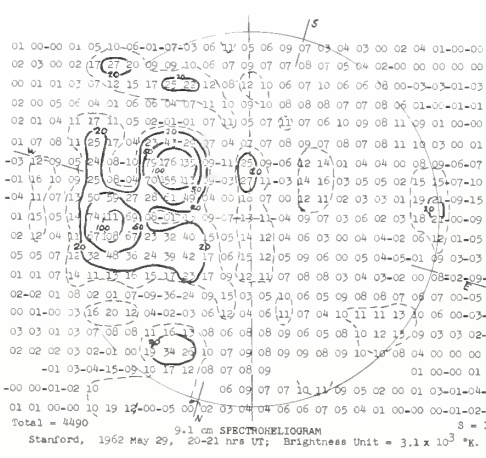



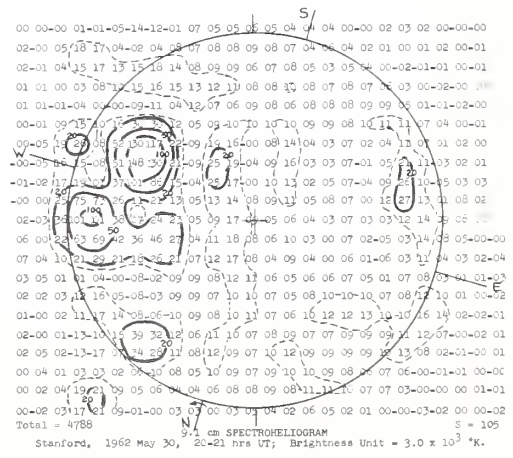

MAY 26, 1962




MAY 27, 1962



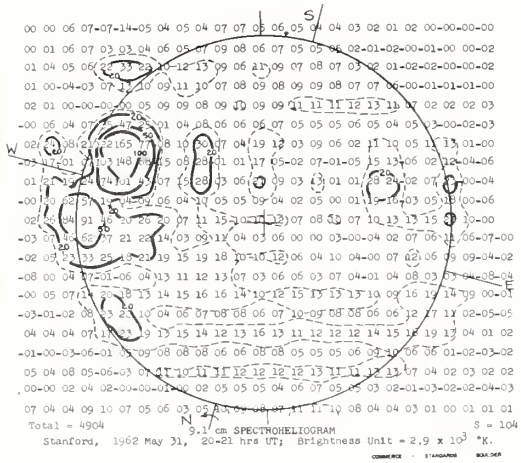



# SOLAR RADIO EMISSION SPECTROHELIOGRAMS

MAY 1962

STANFORD

9.1 cm



# COSMIC RAY INDICES

Climax Neutron Monitor

IGC STATION B 305

## APRIL 1962

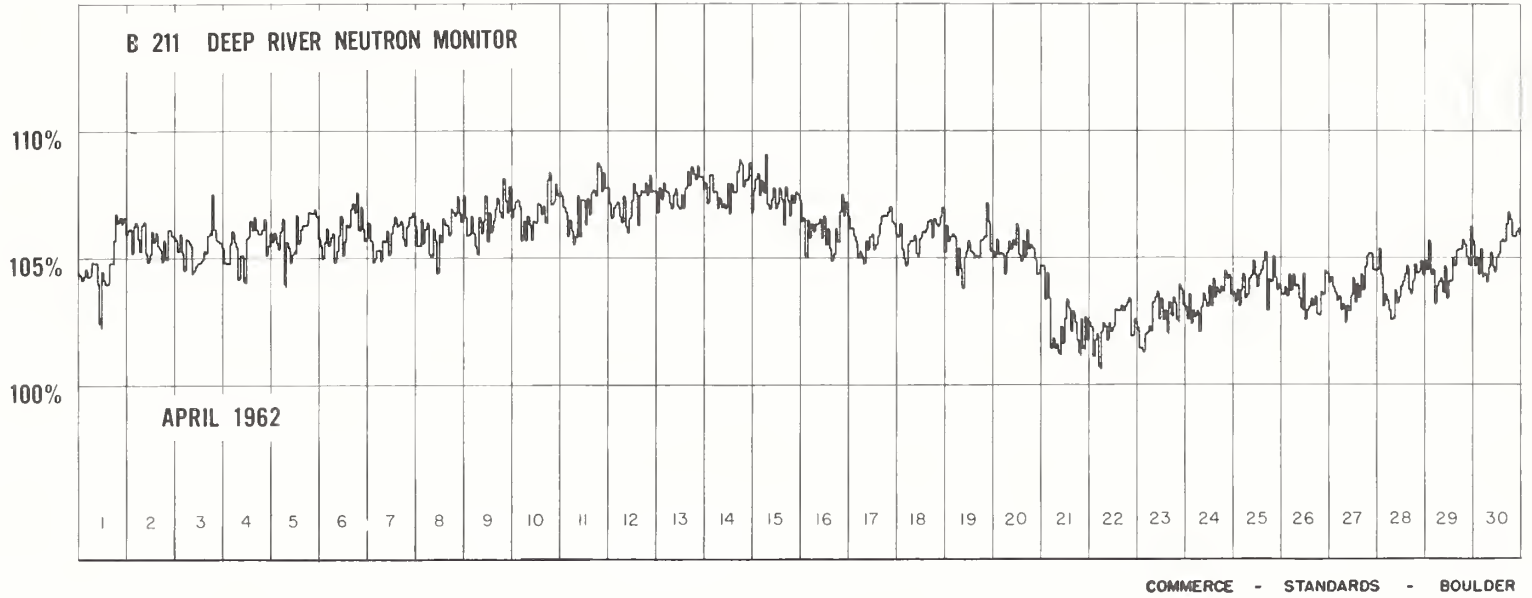
| Apr. 1962 | Daily average counts/hr.* | Apr. 1962 | Daily average counts/hr.* |
|---|---|---|---|
| 1 | 3002.2 | 16 | 3055.5 |
| 2 | 3020.9 | 17 | 3042.7 |
| 3 | 3031.8 | 18 | 3028.9 |
| 4 | 3040.3 | 19 | 3006.8 |
| 5 | 3046.1 | 20 | 3025.6 |
| 6 | 3043.0 | 21 | 2933.7 |
| 7 | 3064.7 | 22 | 2947.5 |
| 8 | 3066.1 | 23 | 2945.2 |
| 9 | 3063.0 | 24 | 2953.8 |
| 10 | 3081.3 | 25 | 2980.6 |
| 11 | 3099.3 | 26 | 2986.0 |
| 12 | 3102.9 | 27 | 2988.1 |
| 13 | 3093.7 | 28 | 3008.1 |
| 14 | 3079.1 | 29 | 3037.8 |
| 15 | 3078.8 | 30 | 3053.4 |

COMMERCE - STANDARDS - BOULDER

*Scaling Factor 128

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)

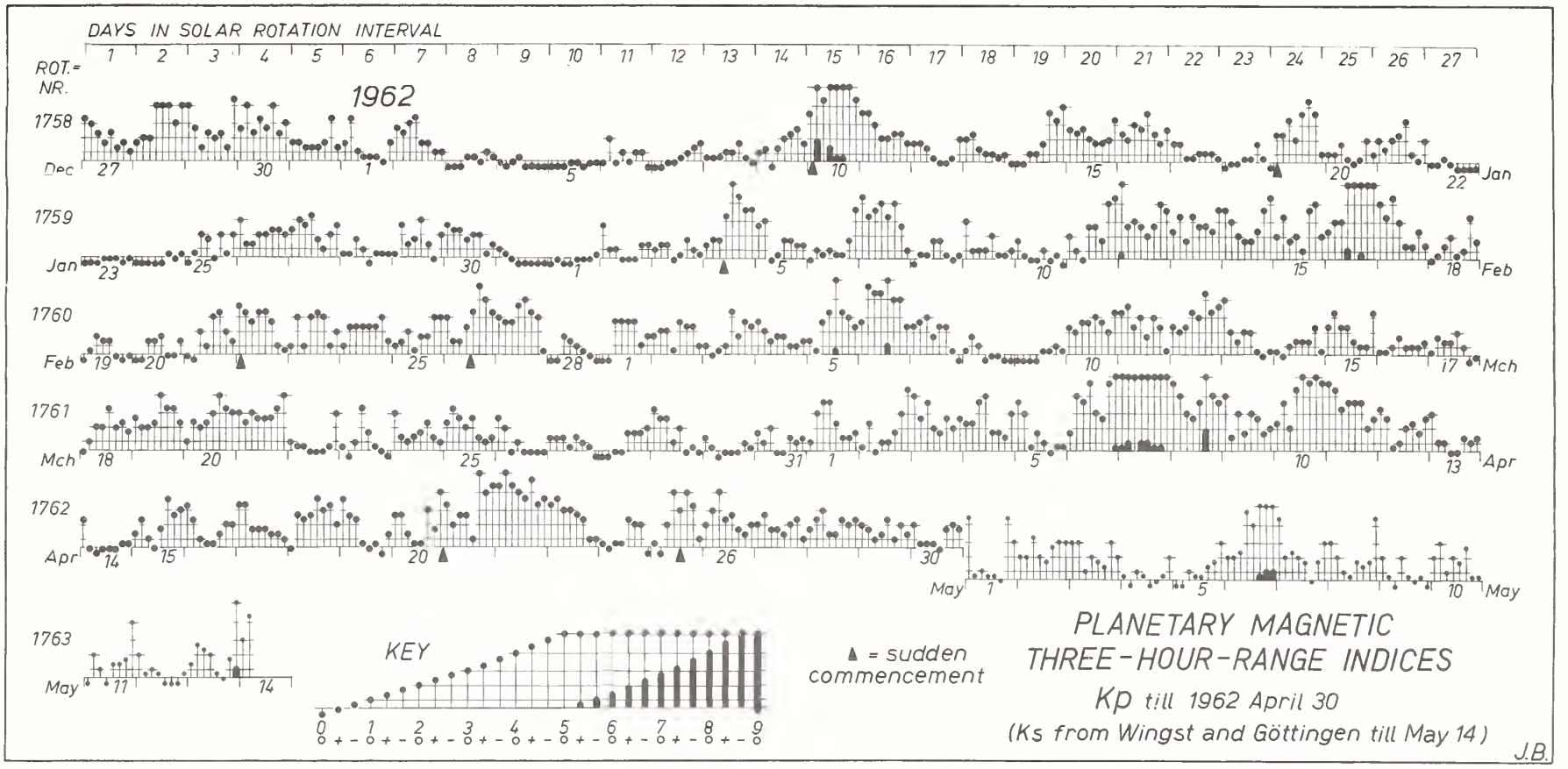


# GEOMAGNETIC ACTIVITY INDICES

## APRIL 1962

| Apr. 1962 | C | Values Kp Three hour Gr. interval 1 2 3 4 | 5 6 7 8 | Sum | Ap | Final Selected Days |
|---|---|---|---|---|---|---|
| 1 | 0.6 | 1o 3o 4- 4- | 2+ 1+ 1+ 2- | 18o | 11 | Five |
| 2 | 0.7 | 1- 2+ 0+ 1o | 1o 2- 3o 4+ | 14+ | 9 | Quiet |
| 3 | 0.8 | 4o 3- 4- 2o | 2- 3- 2o 3- | 21+ | 13 | |
| 4 | 0.7 | 2+ 2+ 4- 4o | 2- 2- 1+ 3o | 20o | 12 | 13 |
| 5 | 0.4 | 4- 3o 1- 2- | 1o 0+ 1- 1- | 12- | 7 | 14 |
| | | | | | | 24 |
| 6 | 1.3 | 2- 4o 4- 5- | 3o 3- 5- 5+ | 30- | 27 | 29 |
| 7 | 1.6 | 5+ 6- 5o 6- | 6- 5+ 5+ 5o | 43o | 58 | 30 |
| 8 | 1.4 | 5- 4o 3o 3- | 4- 6+ 4o 4- | 32o | 32 | |
| 9 | 0.8 | 4o 1+ 3o 2- | 3o 3- 2- 2o | 19+ | 12 | |
| 10 | 1.4 | 2+ 4- 2o 4+ | 5o 5- 5o 5- | 32- | 30 | |
| 11 | 1.1 | 5- 4+ 3+ 4- | 4- 4- 2o 3- | 28o | 22 | Five |
| 12 | 0.5 | 3+ 3- 1- 1o | 2o 2+ 2- 3- | 16+ | 9 | Disturbed |
| 13 | 0.2 | 3o 1o 1o 0+ | 0+ 1+ 1o 1+ | 9+ | 5 | |
| 14 | 0.1 | 2+ 0+ 0o 0+ | 0+ 0+ 1- 1- | 5o | 3 | 6 |
| 15 | 0.7 | 1+ 2+ 1o 0+ | 2- 4- 3- 3o | 16o | 9 | 7 |
| | | | | | | 8 |
| 16 | 0.5 | 3+ 2+ 1o 1- | 1- 1+ 2o 2o | 13+ | 7 | 10 |
| 17 | 0.3 | 3+ 3+ 2- 2- | 2- 1+ 1+ 1o | 15+ | 8 | 22 |
| 18 | 0.7 | 0+ 3- 2+ 3- | 4- 3o 3+ 2o | 20o | 12 | |
| 19 | 0.4 | 4- 3- 2+ 1- | 0+ 1- 0o 1+ | 12- | 7 | |
| 20 | 0.7 | 3- 3- 1+ 1- | 1- 3o 2- 4o | 17- | 10 | |
| 21 | 1.3 | 3+ 2o 3- 3- | 1o 5o 4o 4+ | 25o | 20 | Ten |
| 22 | 1.3 | 4+ 5o 4+ 4o | 4- 5- 3+ 4- | 33o | 30 | Quiet |
| 23 | 0.7 | 3+ 4- 3o 3o | 3- 2+ 1o 1o | 20o | 12 | |
| 24 | 0.2 | 1- 0+ 1- 1- | 2+ 2o 2o 0o | 9- | 4 | 5 |
| 25 | 0.8 | 1- 0o 2o 4o | 3o 4o 3+ 1o | 18o | 13 | 13 |
| | | | | | | 14 |
| 26 | 0.9 | 2o 3o 4o 2+ | 3- 2- 1+ 2o | 19o | 11 | 16 |
| 27 | 0.5 | 2o 3- 2- 2- | 1+ 2o 2+ 1o | 15- | 7 | 17 |
| 28 | 0.4 | 2- 2+ 3o 1+ | 1+ 2+ 2o 2+ | 16+ | 8 | 19 |
| 29 | 0.3 | 2o 2- 1o 1+ | 2+ 1o 2o 1+ | 13- | 6 | 24 |
| 30 | 0.2 | 2o 1- 1- 1- | 0+ 2- 2o 2- | 10- | 5 | 27 |
| | | | | | | 29 |
| | | | | | | 30 |
| Mean: | 0.72 | | | Mean: | 14 | |

COMMERCE - STANDARDS - BOULDER




COMMERCE - STANDARDS - BOULDER

# CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

## APRIL 1962

### NORTH ATLANTIC

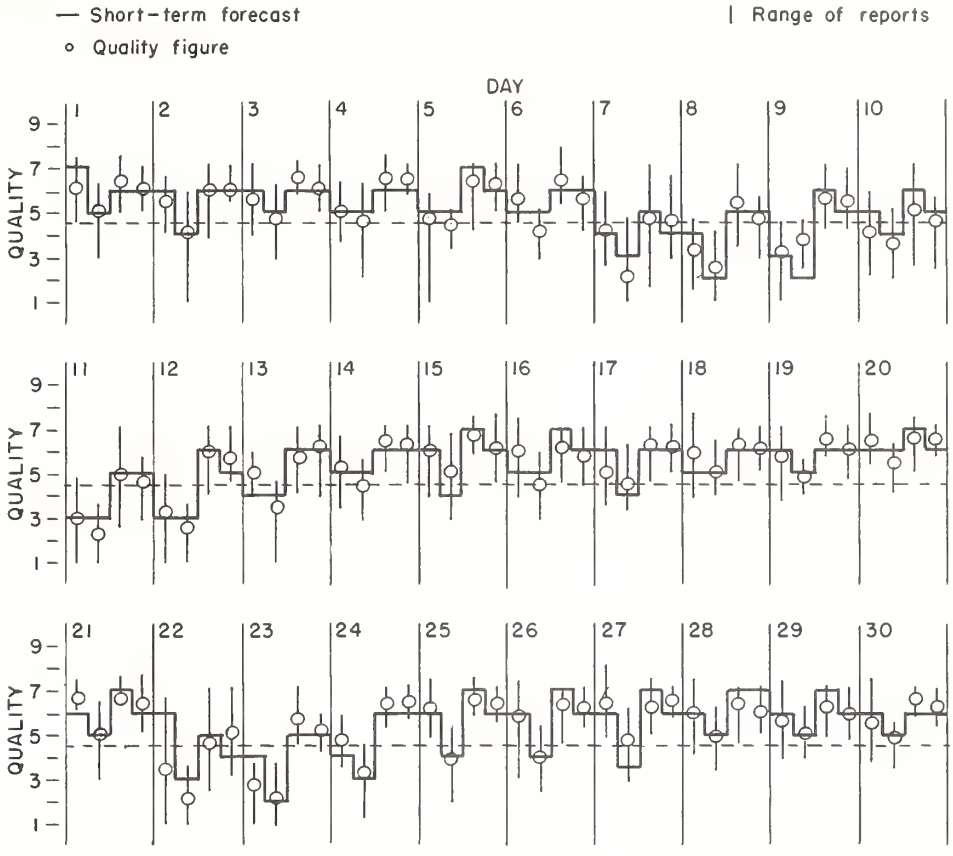
| APRIL 1962 | NORTH ATLANTIC 6-HOURLY QUALITY FIGURES | | | | SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF | | | | WHOLE DAY INDEX | ADVANCE FORECASTS ($I_J$ REPORTS) FOR WHOLE DAY, ISSUED IN ADVANCE BY | | | | GEOMAGNETIC $K_{FR}$ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 00 TO 06 | 06 TO 12 | 12 TO 18 | 18 TO 24 | 00 | 06 | 12 | 18 | | 1-7 DAYS FINAL $J_S$ | 1-7 DAYS SDW $J$ | 1-3 DAYS | 1-7 DAYS | HALF DAY (1) | HALF DAY (2) |
| 01 | 6+ | 5+ | 6+ | 6+ | 7 | 5 | 6 | 6 | 6o | 6 | 6 | | | 3 | 2 |
| 02 | 6- | 4+ | 6o | 6o | 6 | 4 | 6 | 6 | 5+ | 5 | 5 | | | 1 | 3 |
| 03 | 6- | 5- | 7- | 6+ | 6 | 5 | 6 | 6 | 6o | 5 | 5 | | | 3 | 2 |
| 04 | 5o | 5- | 7- | 7- | 5 | 5 | 6 | 6 | 6o | 6 | 6 | | | 3 | 2 |
| 05 | 5- | 4+ | 6+ | 6+ | 5 | 5 | 7 | 6 | 5+ | 6 | 6 | | | 2 | 1 |
| 06 | 6- | 4+ | 6+ | 6- | 5 | 5 | 6 | 6 | 5+ | 6 | 6 | | | 3 | (4) |
| 07 | 4+ | 2o | 5- | 5- | 4 | 3 | 5 | 4 | (4-) | 6 | 6 | | | (5) | (4) |
| 08 | 3+ | 2+ | 5+ | 5- | 4 | 2 | 5 | 5 | (4-) | 6 | 6 | | | (4) | (4) |
| 09 | 3+ | 4- | 6- | 6- | 3 | 2 | 6 | 5 | (4+) | 6 | 6 | | | 2 | 2 |
| 10 | 4+ | 4- | 5o | 5- | 5 | 4 | 6 | 5 | (4+) | 6 | 6 | | | 3 | (4) |
| 11 | 3o | 2+ | 5o | 5- | 3 | 3 | 5 | 5 | (3+) | 6 | 6 | | | (4) | 3 |
| 12 | 3+ | 3- | 6o | 6- | 3 | 3 | 6 | 5 | (4o) | 4 | 4 | | | 2 | 2 |
| 13 | 5o | 3+ | 6- | 6+ | 4 | 4 | 6 | 6 | 5- | 4 | 4 | | | 1 | 0 |
| 14 | 5+ | 4+ | 6+ | 6+ | 5 | 5 | 6 | 6 | 5+ | 5 | 5 | | | 1 | 0 |
| 15 | 6o | 5o | 7- | 6+ | 6 | 4 | 7 | 6 | 6o | 5 | 5 | | | 2 | 3 |
| 16 | 6o | 4+ | 6+ | 6- | 5 | 5 | 7 | 6 | 5+ | 6 | 6 | | | 2 | 2 |
| 17 | 5o | 4+ | 6+ | 6+ | 6 | 4 | 6 | 6 | 5+ | 6 | 6 | | | 3 | 2 |
| 18 | 6o | 5o | 6+ | 6+ | 5 | 5 | 6 | 6 | 6- | 6 | 6 | | | 1 | 3 |
| 19 | 6- | 5- | 7- | 6o | 6 | 5 | 6 | 6 | 6o | 5 | 5 | | | 3 | 1 |
| 20 | 6+ | 5+ | 7- | 7- | 6 | 6 | 7 | 6 | 6+ | 5 | 5 | | | 2 | 2 |
| 21 | 7- | 5o | 7- | 6+ | 6 | 5 | 7 | 6 | 6+ | 5 | 5 | | | 3 | 3 |
| 22 | 3+ | 2+ | 5- | 5o | 6 | 3 | 5 | 4 | (3+) | 5 | 5 | | | (4) | 3 |
| 23 | 3- | 2+ | 6- | 5+ | 4 | 2 | 5 | 5 | (3+) | 6 | 6 | | | (4) | 2 |
| 24 | 5- | 3+ | 6+ | 7- | 4 | 3 | 6 | 6 | 5o | 6 | 6 | | | 1 | 1 |
| 25 | 6+ | 4o | 7- | 6+ | 6 | 4 | 7 | 6 | 6- | 6 | 6 | | | 2 | 3 |
| 26 | 6o | 4o | 6+ | 6+ | 6 | 4 | 7 | 6 | 5+ | 5 | 5 | | | 3 | 2 |
| 27 | 6+ | 5- | 6+ | 7- | 6 | 4 | 7 | 6 | 6o | 5 | 5 | | | 2 | 2 |
| 28 | 6o | 5o | 6+ | 6+ | 6 | 5 | 7 | 7 | 6o | 6 | 6 | | | 2 | 2 |
| 29 | 6- | 5o | 6+ | 6o | 6 | 5 | 7 | 6 | 6- | 6 | 6 | | | 2 | 2 |
| 30 | 6- | 5o | 7- | 6+ | 6 | 5 | 6 | 6 | 6o | 6 | 6 | | | 2 | 1 |
| Score: Quiet Periods P | | | | | 14 | 9 | 18 | 21 | | 10 | 10 | | | | |
| S | | | | | 8 | 3 | 12 | 9 | | 12 | 12 | | | | |
| U | | | | | 0 | 0 | 0 | 0 | | 0 | 0 | | | | |
| F | | | | | 0 | 0 | 0 | 0 | | 0 | 0 | | | | |
| Disturbed Periods P | | | | | 4 | 9 | 0 | 0 | | 1 | 1 | | | | |
| S | | | | | 3 | 8 | 0 | 0 | | 0 | 0 | | | | |
| U | | | | | 0 | 1 | 0 | 0 | | 1 | 1 | | | | |
| F | | | | | 1 | 0 | 0 | 0 | | 6 | 6 | | | | |

### NORTH PACIFIC

| NORTH PACIFIC 12-HOURLY QUALITY FIGURES | | SHORT-TERM FORECASTS ISSUED AT | | WHOLE DAY INDEX | ADVANCE FORECASTS ($J_P$ REPORTS) FOR WHOLE DAY, ISSUED IN ADVANCE BY | | | | GEOMAGNETIC $K_{SI}$ | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0700 TO 1900 | 1900 TO 0700 | 0600 | 1800 | | 1-7 DAYS FINAL $J_{PS}$ | 1-7 DAYS SDW $J_P$ | 1-3 DAYS | 1-7 DAYS | HALF DAY (1) | HALF DAY (2) |
| 7 | 6 | 7 | 6 | 7 | 6 | 6 | | | 0 | 1 |
| 6 | 6 | 7 | 7 | 6 | 6 | 6 | | | 0 | 2 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | 2 | 2 |
| 6 | 7 | 7 | 7 | 6 | 6 | 6 | | | (4) | 1 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | 2 | 1 |
| 6 | 5 | 6 | 6 | 6 | 6 | 6 | | | 3 | 3 |
| 4 | 4 | 4 | 4 | (4) | 6 | 6 | | | (6) | (5) |
| 4 | 5 | 4 | 5 | (4) | 6 | 6 | | | (4) | (4) |
| 5 | 5 | 5 | 6 | 5 | 6 | 6 | | | 2 | 2 |
| 5 | 4 | 5 | 5 | (4) | 6 | 6 | | | 3 | (4) |
| 4 | 5 | 3 | 5 | (4) | 6 | 6 | | | (4) | 3 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | 2 | 1 |
| 6 | 5 | 5 | 6 | 5 | 5 | 5 | | | 1 | 0 |
| 6 | 6 | 6 | 6 | 6 | 5 | 5 | | | 0 | 0 |
| 6 | 6 | 7 | 6 | 6 | 6 | 6 | | | 1 | 2 |
| 7 | 6 | 7 | 6 | 6 | 6 | 6 | | | 2 | 1 |
| 6 | 6 | 7 | 6 | 6 | 6 | 6 | | | 2 | 1 |
| 7 | 6 | 7 | 6 | 6 | 6 | 6 | | | 2 | 3 |
| 6 | 6 | 6 | 6 | 7 | 6 | 6 | | | 1 | 0 |
| 7 | 6 | 6 | 6 | 6 | 3 | 3 | | | 2 | 2 |
| 7 | 5 | 7 | 5 | 6 | 4 | 4 | | | 2 | 3 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | (4) | 3 |
| 5 | 5 | 5 | 5 | 5 | 6 | 6 | | | 3 | 2 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | 0 | 1 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | 2 | 2 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | (4) | 2 |
| 6 | 5 | 6 | 5 | 6 | 6 | 6 | | | 2 | 2 |
| 7 | 6 | 6 | 6 | 6 | 6 | 6 | | | 2 | 2 |
| 6 | 6 | 7 | 6 | 6 | 6 | 6 | | | 2 | 2 |
| 6 | 6 | 7 | 6 | 6 | 6 | 6 | | | 1 | 1 |
| | | 17 | 24 | | 19 | | | | | |
| | | 10 | 4 | | 5 | | | | | |
| | | 0 | 0 | | 0 | | | | | |
| | | 0 | 0 | | 2 | | | | | |
| | | 2 | 1 | | 0 | | | | | |
| | | 1 | 1 | | 0 | | | | | |
| | | 0 | 0 | | 0 | | | | | |
| | | 0 | 0 | | 4 | | | | | |

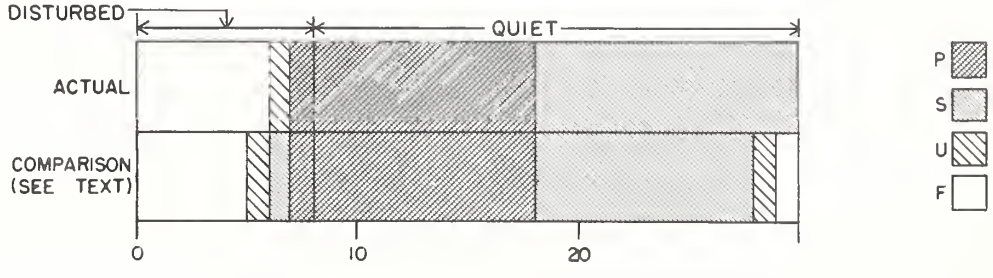
NORTH ATLANTIC

APRIL 1962

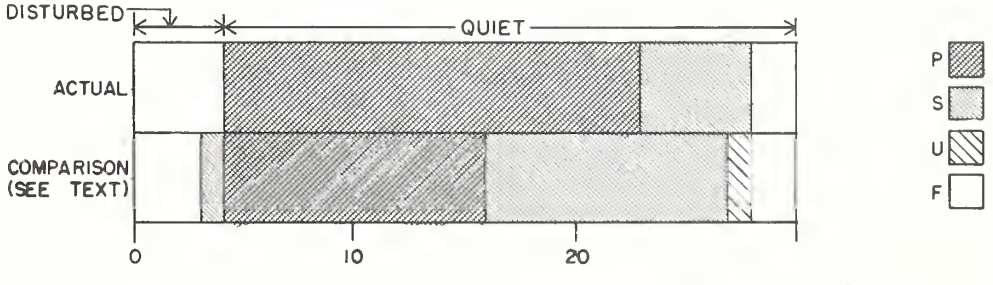



OUTCOME OF ADVANCED FORECASTS FINAL ESTIMATE

NORTH ATLANTIC




NORTH PACIFIC

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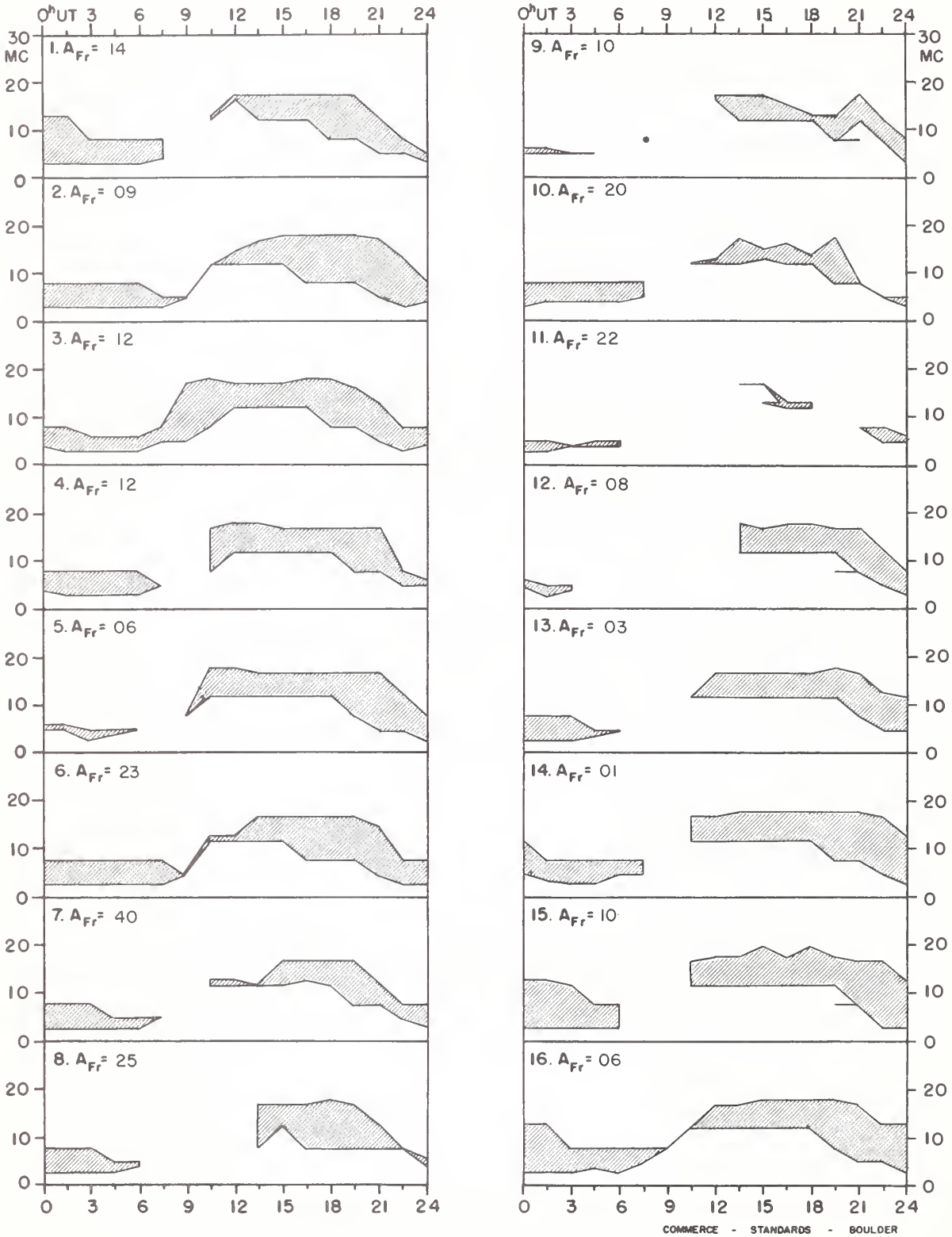
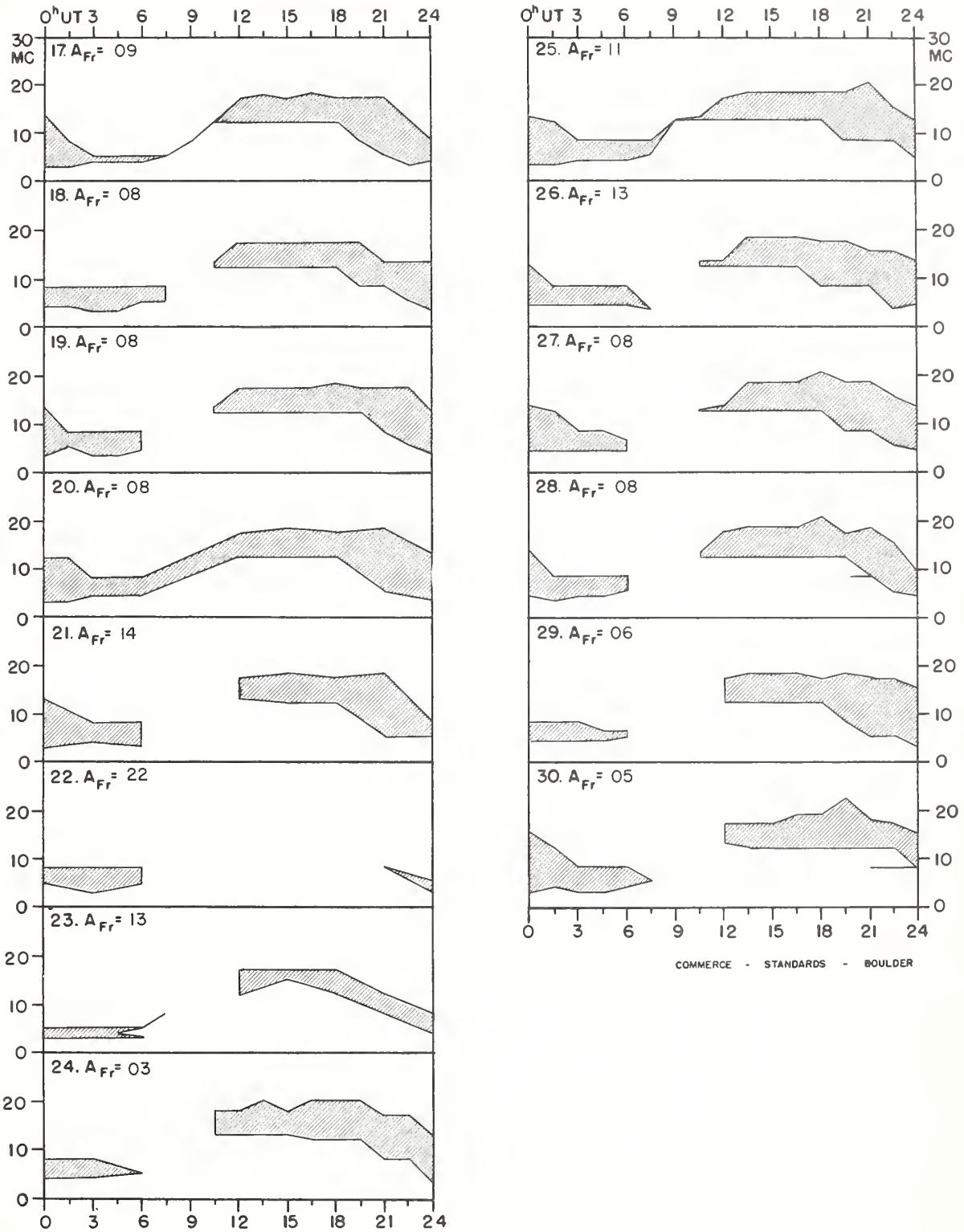
# USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

APRIL 1962



APRIL 1962




Adapted from Observations by Deutsches Bundespost

# ALERT PERIODS AND SPECIAL WORLD INTERVALS

## INTERNATIONAL WORLD DAY SERVICE

## MAY 1962

| Issued May 1962 Day/Time U.T. | Advance Geophysical Alert | No. | World-Wide Geophysical Alert | Special World Intervals |
|---|---|---|---|---|
| 05/1935 | Lockheed, Solar Flare, Two 05/1900Z | | | |
| 12/0125 | Sac Peak, Solar Flare, One Plus 11/2132Z | | | |
| 29/0045 | Sac Peak, Solar Flare, Two 28/1640Z | | | |

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